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September 21, 2009

Mr. Jerry Wickham
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Fuel Leak Case#RO0458
Site Located at 3820 Manila Avenue, Oakland, California
Former Glovatorium Facility

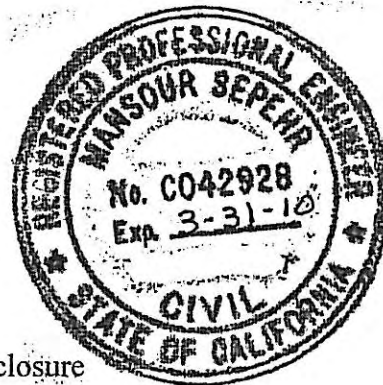
Dear Mr. Wickham:

SOMA's "Second Semi-Annual 2009 Groundwater Monitoring Report" for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have any questions or comments.

Sincerely,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist



cc: Mr. Albert M. Cohen, LOEB&LOEB LLP w/enclosure
Mr. Peter W. McGaw, ARCHER NORRIS w/enclosure
Mr. John Kortum, ARCHER NORRIS w/enclosure
Dr. Bruce Page, Bruce W. Page Consulting w/enclosure
Mr. Stuart Depper w/enclosure
Ms. Betty Graham, Regional Water Quality Control Board w/o enclosure

**Second Semi-Annual 2009
Groundwater Monitoring Report**

**The Former Glovatorium Facility
3820 Manila Avenue
Oakland, California**

September 21, 2009

Project 2511

Prepared for:

**Loeb & Loeb LLP
10100 Santa Monica Boulevard, Suite 2200
Los Angeles, California 90067-4164**



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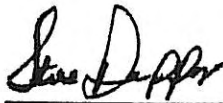
Perjury Statement

Stuart Depper
Name

Responsible Party
Title

3820 Manila Avenue Oakland 94609
Street Address City Zip

I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report were prepared under my direction and to the best of my knowledge true and correct.

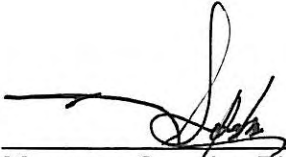


Signature

9-21-09
Date

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report for the Law Offices of Loeb & Loeb LLP, to comply with Alameda County Department of Environmental Health requirements for the groundwater monitoring event, and to provide information necessary to defend claims brought against the owners by Earl Thompson and Grace Johnson.



Mansour Sepéhr, PhD, PE
Principal Hydrogeologist



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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report for the Law Offices of Loeb & Loeb LLP on behalf of their client, the owners of the subject property. The property, the former Glovatorium, is located at 3820 Manila Avenue (formerly known as 3815 Broadway), Oakland, California, as illustrated in Figure 1. The site is located in an area of primarily commercial and residential developments.

This report summarizes results of the groundwater monitoring event conducted at the site on August 11 and 12, 2009 and includes laboratory results for the groundwater samples.

In addition to the above laboratory analyses, the natural attenuation study initiated by Levine-Fricke Recon (LFR) in Third Quarter 2000 was continued during this monitoring event. The objective of the study was to evaluate whether perchloroethylene (PCE) and other volatile organic compounds (VOCs) found in the groundwater were biodegrading. Therefore, groundwater samples collected during this monitoring event were analyzed for common electron acceptors and other geochemical indicators. Results of these analyses are presented in this report.

All activities were performed in accordance with general guidelines of the California Regional Water Quality Control Board (CRWQCB) and the Alameda County Environmental Health Services (ACEHS). Appendix A details procedures followed by SOMA during this monitoring event.

This work is intended to determine the nature and extent of environmental contamination and whether contamination is affecting the neighboring Thompson property. This information is pertinent to the claim Mr. Thompson brought against the Deppers, owners of the Glovatorium. Data gathered by this work may also help determine when releases occurred, significant information that is pertinent to the defense against claims brought by Ms. Johnson, a former owner of the property.

1.1 Site Description

The site is located between Manila Avenue and Broadway, near the intersection with 38th Street in Oakland, California. Surface elevation ranges from approximately 78 to 84 feet above mean sea level.

A 54-inch inside-diameter storm drain culvert passes under the property, from Manila Avenue on the west to 38th Street on the south (see Figure 2). The depth of the storm drain invert is approximately 8.5 feet under the sidewalk on the

eastern side of Manila Avenue and approximately 13.2 feet below ground surface (bgs) at the far end, approximately 60 feet south of well GW-4.

A 10-inch-diameter cast iron sanitary sewer conduit runs westerly from the on-site building and discharges into the sanitary sewer line, which runs north to south along Manila Avenue. Figure 2 shows locations of the storm drain and sanitary sewer system.

Six underground storage tanks (USTs) were formerly on the site. Two were located under the sidewalk on 38th Street and four inside the building. UST capacities have been variously reported as ranging from 800 gallons to 5,000 gallons. They reportedly contained Stoddard solvent, fuel oil and possibly waste oil. In August 1997, the six USTs were abandoned in place by backfilling with either cement-sand slurry or pea gravel. In addition, there are three USTs owned by Earl Thompson, Sr., under the sidewalk on 38th Street (Figure 2).

Surrounding properties are primarily commercial and residential. TOSCO Marketing Company is located north and upgradient of the site, at 40th Street and Broadway, and contains a number of groundwater monitoring wells. Figure 2 shows locations of the subject site's main building, UST areas, and on- and off-site groundwater monitoring wells.

1.2 Background

Geosolv, LLC (Geosolv) initiated the first soil and groundwater investigation in August 1997. Using the direct push method, Geosolv drilled 14 soil borings to the approximate depths of 10 to 24 feet bgs. Seven borings (B-2, B-3, B-7 through B-10 and B-13; Figure 2) were converted to temporary groundwater monitoring wells, where grab groundwater samples were collected. In September 1998, Geosolv conducted further soil and groundwater investigations by drilling 12 additional soil borings to approximate depths of 19 to 25 feet bgs. All 12 borings were converted to temporary groundwater sampling points, labeled E-15 through E-26. After collection of grab groundwater samples from temporary "E" sampling points, these borings were abandoned and grouted.

In July 1999, an investigation of potential groundwater preferential flow paths was initiated by LFR. LFR drilled 10 soil borings (GW-1 through GW-8, GW-5A, and GW-6A) primarily along the 54-inch-diameter storm drain and sanitary sewer systems, to depths ranging from 8 to 20 feet bgs. During drilling, soil samples were collected from various depth intervals. In August 1999, LFR collected grab groundwater samples from seven of the nine "GW" wells. GW-1 to GW-6A are shown in Figure 2.

LFR conducted the first groundwater monitoring events in January, April, October, and November 2000, and installed four groundwater monitoring wells, LFR-1 through LFR-4, in July and August 2000 (Figure 2).

In January 2001, LFR conducted a second groundwater monitoring event that suggested occurrence of strong anaerobic biodegradation activities and dechlorination of PCE beneath the site. On April 26 and 27, 2001, SOMA began its initial groundwater monitoring events. Results of the Second Quarter 2001 monitoring event indicated occurrence of strong dechlorination of PCE in the subsurface.

SOMA's June 2001 workplan recommended replacement of the existing small-diameter monitoring wells, B-7 and B-10, with larger-diameter wells to better evaluate bioattenuation parameters. On October 4, 11, and 12, 2001, SOMA installed monitoring wells SOMA-1 through SOMA-5 (Figure 2). During installation, boreholes were continuously logged and soil samples collected at 5-foot depth intervals to delineate vertical extent of soil and groundwater contamination.

Phase I of SOMA's workplan included installing additional groundwater monitoring wells, soil and groundwater sampling, hydraulic testing, and a sensitive receptor survey. Phase II of the workplan included defining site regulatory status by conducting groundwater flow, chemical fate and transport modeling, and a risk-based corrective action (RBCA). SOMA's "Report on Conducting Additional Field Investigation to Evaluate the Site's Conceptual Model," dated January 3, 2002, describes results of investigations conducted in Phase I.

The modeling aspect of Phase II used results collected in Phase I and analytical data from quarterly monitoring events. The main objective of groundwater flow and chemical transport modeling was to predict groundwater chemical concentrations downgradient of the site, beneath the nearest residential neighboring property, in order to assess site regulatory status and restore groundwater quality conditions to acceptable levels specified by the RBCA.

Groundwater flow, chemical transport, and bioattenuation modeling for the site was conducted by SOMA in First Quarter 2003. Modeling results confirmed occurrence of biodegradation beneath the site and indicated that bioattenuation processes could remove PCE in the groundwater in approximately 7 to 10 years, trichloroethylene (TCE) in approximately 3 to 9 years, and cis-1,2-dichloroethene (cis-1,2-DCE) in approximately 4 to 13 years. SOMA's March 7, 2003 report titled "Groundwater Flow, Chemical Transport and Bioattenuation Modeling" describes the study in detail.

Based on approval from ACEHS, groundwater monitoring events have been conducted semi-annually since First Quarter 2003.

1.3 Site Geology and Hydrogeology

The site is located on the alluvial plain between the San Francisco Bay shoreline and the Oakland hills. Surface sediments in the site vicinity consist of Holocene alluvial deposits representative of an alluvial fan depositional environment. These deposits consist of brown, medium-dense sand that fines upward to sandy or silty clay. The pattern of stream channel deposition results in a three-dimensional network of coarse-grained sediments interspersed with finer-grained silts and clays. The individual units tend to be discontinuous lenses aligned parallel to the axis of the former stream flow direction.

The sediments encountered in soil borings are predominantly fine grained, consisting of clay, silty clay, sandy clay, gravelly clay and clayey silt. Discontinuous layers of coarse-grained sediments (clayey sand, silty sand, and clayey gravel) generally also contain relatively high percentages of silt and clay, which tend to reduce their permeability. Based on previous investigations conducted by Geosolv and LFR, a relatively coarse-grained layer of silty sand, clayey sand, and clayey gravel was encountered in soil borings E-23, E-25, E-26, GW-2, GW-3, GW-7, and GW-8 at depths of approximately 4.5 to 14 feet bgs. A discontinuous layer of silty to clayey sand was encountered in borings B-11, E-23, E-25, GW-7 and GW-8 at depths of 17 to 21 feet bgs.

Based on SOMA's October 2001 field investigation, no deeper major water-bearing zone was encountered. However, as lithologic logs of the newly installed groundwater monitoring wells indicate, the water-bearing zone is composed of fine-grained, clayey silt sediments separated by very low-permeability intervening clay layers, which are unsaturated in some locations. For instance, SOMA-5, which has been screened within a significantly thick clay layer beneath the first water-bearing zone, from 21 to 26 feet bgs using the dual tubing method, was a dry well until the First Quarter 2002 sampling event. Due to the presence of unsaturated and low-permeability intervening clay layers between the shallow and deep layers, there is a significant vertical downward gradient between the shallow and deep wells.

Based on quarterly monitoring activities, depths of groundwater have ranged from 4 to 14 feet bgs at gradients ranging from 0.019 ft/ft to 0.035 ft/ft. Groundwater flow has been predominantly northeast to southwest across the site. Slug test results indicate that hydraulic conductivity of the saturated sediments ranges between 1.2×10^{-4} and 6.9×10^{-4} cm/sec. Using the average groundwater flow gradient of 0.027 and aquifer porosity of 0.32, the groundwater flow velocity ranges between 10.5 and 60.1 ft/year.

1.4 Previous Activities

In order to demonstrate the fate and transport of PCE and other VOCs, SOMA conducted groundwater flow and chemical transport modeling and compared

results with those of routine groundwater monitoring data. Results of groundwater fate and transport modeling were used to conduct a human health risk assessment in order to evaluate site cleanup levels. Analyses showed that conditions are conducive to biodegradation and that, in fact, biodegradation is occurring. In general, PCE trends appeared generally consistent with SOMA's model, indicating that passive remediation has been effective. However, one obstacle to closing the site was the presence of free product (FP). Alameda County environmental regulatory guidelines do not permit closure as long as FP is present. As a result, over the past several years SOMA has been removing FP from the site. As of March 2008, approximately 1,895 gallons had been removed. Levels of FP in the wells were dropping fairly consistently over the past several years and, as noted above, PCE trends were decreasing consistent with SOMA's model.

FP or sheen has been reported sporadically in monitoring wells at the site since 1997. Past attempts to delineate the extent and sources of FP have been problematic due to variability and complexity of the subsurface soil and water table characteristics, access limited by buildings, and presence of potential preferential pathways for contaminant migration related to underground storm drain and sanitary sewer lines.

FP was located primarily in the vicinity of SOMA-4 and B-8 (Figure 2). As a result, SOMA instituted an FP removal program for those wells in 2002. As of March 2008, 1,895 gallons of FP and contaminated groundwater had been removed from SOMA-4 and B-8. As of summer 2007, FP levels had been reduced significantly and SOMA was optimistic that it would be in a position to request closure. However, during First Quarter 2008 groundwater monitoring, FP was unexpectedly observed for the first time in SOMA-2 and B-10, which are located approximately 40 feet east-southeast and northeast of SOMA-4 and B-8. Approximately 0.71 feet of FP was detected in SOMA-2 and 2.76 feet in B-10. During Second Semi-Annual 2008 groundwater monitoring, FP was observed in well B-10 at 0.17 feet and in wells SOMA-2 and SOMA-4 at 0.60 feet each.

Results from the First Semi-Annual 2008 sampling event showed significant increases in PCE levels in wells with newly discovered FP (B-10 and SOMA-2). SOMA believes that the presence of elevated levels of FP in these wells for the first time contributed to the presence of elevated levels of dissolved solvents at this location. The FP consisted primarily of TPH-ss, which has the potential to dissolve PCE and TCE. Thus, it is suspected that the FP in the area of SOMA-2 and B-10 caused dissolution and mobilization of residual levels of PCE in the subsurface.

Beginning September 2, 2008, SOMA conducted a 45-day multi-phase extraction (MPE) pilot test at the site. Test results indicated that MPE technology is highly effective in removing FP, chemically impacted groundwater and soil vapor from the subsurface. The pilot tests were conducted using SOMA-4, SOMA-2, B-8 and

B-10. Significantly, the pilot test showed that MPE can be effective in removing contamination from the smear zone, thereby preventing creation of FP.

From May 4 through May 22, 2009, SOMA advanced 16 soil and groundwater borings at the site to delineate the groundwater plume and smear zone. Based on results of soil and groundwater analysis, five new MPE wells (MPE-1 through MPE-5) were installed and SOMA-4, B-8, and B-10 were reconstructed as 2-inch wells (SOMA-4R, B-8R, and B-10R) with a screening interval from 5 to 20 feet bgs.

MPE pilot testing has been ongoing at the site since December 17, 2008.

2. RESULTS

This section describes results of the current groundwater monitoring event, including groundwater flow conditions, status of groundwater contamination, and occurrence of bioattenuation in the subsurface.

2.1 Groundwater Flow Conditions

Table 2 presents groundwater elevations in each well, calculated using depths to water and the elevation at the top of the well casings. Elevations ranged from 56.92 feet in SOMA-5 to 76.54 feet in MW-8. Refer to Table 2 for detailed groundwater elevation trends.

In evaluating groundwater flow direction and gradient, water level data from all "B" wells (except B-3, B-8R, and B-10R) and from GW-4, SOMA-1, SOMA-3, and SOMA-5 were not utilized for the following reasons:

1. No accurate information about construction details of the "B" wells installed by Geosolv is available, and water-level data from these wells are questionable. B-3, B-8R, and B-10R were reconstructed by SOMA into 2-inch wells.
2. GW-4 was installed adjacent to the storm drain system in order to evaluate whether the system is leaking. This well was installed in the shallow formation and may partially penetrate into the underlying water-bearing zone. Therefore, the water level elevation recorded inside GW-4 may not be representative of the underlying water-bearing zone.
3. SOMA-1, SOMA-3 and SOMA-5 have been completed in the deeper layer of the water bearing zone, and due to the strong vertical gradient, the water level elevation in this layer is significantly lower than in the shallow layer.

Figure 3 displays a contour map of groundwater elevations. In general, groundwater flows from northeast to southwest at an average gradient of 0.017 ft/ft. Groundwater flow direction and gradient have remained consistent with the previous monitoring event.

Field measurements of some physical and chemical parameters of the groundwater samples are presented in detail in Appendix B field notes, and summarized in Table 3 along with their historical values. Water temperatures ranged from 16.89°C in MPE-1 to 20.47°C in GW-3. The temperature variation may reflect changes in air temperature during sampling. Measurements of pH ranged from 6.00 in MW-11 to 6.60 in MPE-1. Electrical conductivity (EC) ranged from 482 µS/cm in LFR-3 to 1222 µS/cm in B-8R.

2.2 Groundwater Quality

Table 4 presents laboratory analysis results for the following: total petroleum hydrocarbons as Stoddard solvents (TPH-ss) and as gasoline (TPH-g); methyl tertiary-butyl ether (MtBE); and benzene, toluene, ethylbenzene, total xylenes (collectively termed BTEX).

Due to drought conditions, SOMA's field crew was unable to obtain sufficient groundwater for sampling and analysis from SOMA-5. GW-4 could not be sampled because it was dry. Wells SOMA-2 and MPE-3 were not sampled due to the presence of FP.

TPH-ss was below the laboratory-reporting limit in GW-2, MW-11, LFR-1, LFR-3, and SOMA-1. Detectable TPH-ss levels ranged from 75 µg/L in GW-3 to 380,000 µg/L in MPE-2. Figure 4 shows the contour map of TPH-ss concentrations in groundwater. TPH-ss in SOMA-4R decreased, while it increased in B-10R significantly, post reconstruction and since the previous monitoring event (First Semi-Annual 2009).

TPH-g was below the laboratory-reporting limit in GW-2, MW-11, LFR-1, and LFR-3. Detectable TPH-g concentrations ranged from 53 µg/L in SOMA-1 to 200,000 µg/L in MPE-2. All groundwater samples with detectable concentrations exhibited a chromatographic pattern that did not resemble the standard gasoline pattern. Figure 5 shows the contour map of TPH-g concentrations in groundwater. TPH-g increased in B-10R, GW-3, and LFR-2 and decreased in LFR-1, LFR-4, SOMA-1, and SOMA-3 since the previous monitoring event (First Semi-Annual 2009).

MtBE was below the laboratory-reporting limit in B-8R, GW-2, GW-3, MW-11, LFR-1, LFR-2, and LFR-3 and was detected in concentrations ranging from 0.9 µg/L in LFR-4 to 430 µg/L in SOMA-1 and SOMA-3. However, there is

no known on-site source of MtBE. Figure 6 shows the contour map of MtBE concentrations in the groundwater.

In general, BTEX constituents were below laboratory-reporting limits throughout the site, except for LFR-2, SOMA-4R, MPE-1, MPE-2, and MPE-4.

- Toluene, ethylbenzene and total xylenes were below laboratory-reporting limits in LFR-2 and MPE-4, and benzene was detected at low levels.
- In SOMA-4R, benzene, toluene, and ethylbenzene were below laboratory-reporting limits and total xylenes were detected at a low level.
- In MPE-1, benzene, ethylbenzene, and total xylenes were below laboratory-reporting limits and toluene was detected at a low level.
- In MPE-2, BTEX constituents were detected at 1.6 µg/L, 5.3 µg/L, 1.3 µg/L, and 20.4 µg/L, respectively.

Figure 7 shows the map of benzene concentrations in groundwater. Refer to Table 4 for detailed groundwater concentration trends for total petroleum hydrocarbons, MtBE and BTEX.

Table 5 shows historical concentrations of VOCs in the groundwater. PCE was below the laboratory-reporting limit in groundwater samples from B-8R, MW-11, LFR-2, LFR-4, MPE-2, MPE-4, and MPE-5. Detectable PCE concentrations ranged from 0.5 µg/L in LFR-3 to 260 µg/L in B-10R. Figure 8 shows the contour map of PCE concentrations in groundwater. Since the previous monitoring event (First Semi-Annual 2009), all detectable concentrations of PCE have decreased, except in SOMA-4R, where PCE increased from non-detectable concentration to trace concentration post reconstruction.

TCE was below the laboratory-reporting limit in groundwater samples from B-8R, MW-11, LFR-2, LFR-3, LFR-4, SOMA-4R, MPE-2, MPE-4, and MPE-5. Detectable TCE concentrations ranged from 3.1 µg/L in GW-2 to 120 µg/L in B-10R. Figure 9 shows the contour map of TCE concentrations in groundwater. Since the previous monitoring event (First Semi-Annual 2009), TCE has decreased in B-10R, GW-2, SOMA-1, and SOMA-3 and increased in GW-3 and LFR-1.

Cis-1,2-DCE was below the laboratory-reporting limit in groundwater samples from GW-2, MW-11, LFR-3, and LFR-4. Detectable cis-1,2-DCE concentrations ranged from 1.3 µg/L in GW-3 to 1,800 µg/L in B-10R. Figure 10 shows the contour map of cis-1,2-DCE concentrations in groundwater. Since the previous monitoring event (First Semi-Annual 2009), cis-1,2-DCE concentrations have decreased in B-10R, LFR-2, LFR-4, SOMA-1, SOMA-3, and SOMA-4R.

Trans-1,2-dichloroethene (trans-1,2-DCE) was below the laboratory-reporting limit in all groundwater samples except at LFR-1, MPE-1, MPE-2, MPE-4, and

MPE-5. Detectable trans-1,2-DCE concentrations ranged from 1.3 µg/L in MPE-2 to 5.3 µg/L in MPE-1. Figure 11 shows the contour map of trans-1,2-DCE concentrations in groundwater.

Vinyl chloride (VC) was below the laboratory-reporting limit throughout the site, except for samples from LFR-2 at 13 µg/L. 1,2-dichloropropane (1,2-DCP) was below the laboratory-reporting limit throughout the site, except for samples from SOMA-4R and MPE-2 at 1.5 µg/L and 1.6 µg/L, respectively. Due to generally low or non-detectable levels of these constituents throughout the site, no iso-concentration figures were drawn for VC and 1,2-DCP.

Table 5 shows detailed PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC, and 1,2-DCP groundwater concentration trends.

Appendix C includes chain of custody forms and laboratory analytical reports for this groundwater monitoring event.

2.3 Bioattenuation Parameter Analysis Results

Results of the bioattenuation study indicated that subsurface conditions are favorable for occurrence of intrinsic bioremediation processes in soil and groundwater. Results of this study indicated that PCE and other dissolved organic compounds are biodegrading beneath the site. For example, PCE levels in LFR-1 have dropped from 2,800 µg/L in 2000 to 82 µg/L during this monitoring event. SOMA's field crew measured bioattenuation parameters in situ. Dissolved methane was measured in the laboratory. Field measurements were taken in situ, within each well, to avoid introducing oxygen into the groundwater sample, which could result in erroneous readings.

Naturally occurring biological processes can enhance the removal rate of contaminants in the subsurface. During the degradation process, indigenous bacteria in the subsurface utilize energy released from the transfer of electrons to drive redox reactions that remove organic mass from contaminated groundwater. The more positive the redox potential of an electron acceptor, the more energetically favorable is the reaction utilizing that electron acceptor. Based on thermodynamic considerations, the most energetically preferred electron acceptor for redox reactions is dissolved oxygen (DO), followed by nitrate, manganese, ferric iron, sulfate, and carbon dioxide, in descending order of preference. Evaluating distribution of these electron acceptors can provide evidence of where, and to what extent, chlorinated and aliphatic hydrocarbon biodegradation is occurring. Byproducts of biodegradation processes are nitrite, ferrous iron, alkalinity, sulfide, methane, and carbon dioxide. Groundwater samples were tested to evaluate the extent of bioattenuation processes beneath the site. Table 6 summarizes these bioattenuation parameters.

Dissolved Oxygen: DO is the most favored electron acceptor used by microbes for biodegrading organic compounds. A DO concentration lower than 0.5 mg/L indicates anaerobic conditions. DO levels ranged from 0.11 mg/L in MPE-2 to 2.28 mg/L in SOMA-3. The contour map of DO concentrations in the groundwater is illustrated in Figure 12.

It should be noted that due to limitations of drilling equipment, SOMA-3 is still a ¾-inch-diameter well that was installed in the deeper zone, within the suspected chemical source area, which is inside the building. Although DO was measured in SOMA-3 at 2.28 mg/L, results might not be representative of overall subsurface conditions.

Nitrate: After DO has been depleted, nitrate may be used as an electron acceptor for anaerobic biodegradation. Nitrate concentrations lower than 1.0 mg/L may indicate that reductive dechlorination is occurring. Nitrate was below the minimum equipment tolerance level in B-8R, LFR-3, LFR-4, SOMA-1, MPE-4, and MPE-5 and detectable concentrations ranged from 0.9 mg/L in SOMA-3 to 12.30 mg/L at B-10R. The contour map of nitrate concentrations in groundwater is illustrated in Figure 13.

Manganese: After DO and nitrate have been depleted, manganese may be used as an electron acceptor for anaerobic biodegradation. Therefore, increased dissolved manganese concentrations in groundwater indicate reductive dechlorination. Soluble manganese was detected in all groundwater samples except those from GW-3. Detectable manganese concentrations ranged from 0.6 mg/L in MW-11 to 47 mg/L in B-10R. The contour map of dissolved manganese concentrations in the groundwater is illustrated in Figure 14.

Sulfate: After DO, nitrate, and manganese have been depleted, sulfate may be used as an electron acceptor for anaerobic biodegradation. This process is termed sulfate reduction, and results in production of sulfide. Sulfate concentrations lower than 20 mg/L indicate reductive dechlorination (EPA 1998). Sulfate was not detected in B-8R, LFR-4 and MPE-5. Detectable sulfate levels ranged from 2 mg/L in SOMA-4R to the equipment maximum allowable tolerance level of 80 mg/L in B-10R. The contour map of sulfate concentrations in the groundwater is illustrated in Figure 15.

Ferrous Iron: Increased ferrous iron concentrations often accompany anaerobic degradation. Ferric iron can be used as an electron acceptor during anaerobic biodegradation. During this process, ferric iron is reduced to ferrous iron, which may be soluble in water. Ferrous iron concentrations can thus be used as an indicator of anaerobic biodegradation. Detectable ferrous iron concentrations ranged from 0.02 mg/L in GW-3 to 3.12 mg/L in B-10R. Ferrous iron concentrations were not detected in B-8R, LFR-1, LFR-3, and MPE-5. The

contour map of ferrous iron concentrations in the groundwater is illustrated in Figure 16.

Methane: The presence of methane in groundwater indicates strongly reduced conditions and suggests reductive dechlorination by the process of methanogenesis. Methane was below the laboratory-reporting limit in GW-2, GW-3, MW-11, LFR-1, and LFR-3. Detectable methane concentrations ranged from 0.09 mg/L in MPE-1 to 5.4 mg/L in B-8R. Higher concentrations of methane indicate conditions conducive to anaerobic biodegradation. The contour map of methane concentrations in groundwater is illustrated in Figure 17.

Oxygen Reduction Potential (ORP): The ORP of groundwater is a measure of electron activity and an indicator of the relative tendency of a solution to accept or transfer electrons. ORP may range from greater than 800 mV to less than -400 mV, with lower values expected in areas where anaerobic processes are occurring. ORP measurements obtained in this sampling event ranged from -138.1 mV in LFR-2 and SOMA-4R to +30.20 mV in GW-2.

Negative ORP values, detected in B-8R, B-10R, LFR-2, LFR-3, LFR-4, SOMA-1, SOMA-4R, and MPE-2, MPE-4, and MPE-5, indicate that conditions in and near the apparent source area are conducive to anaerobic biodegradation. Positive redox potentials are more energetically favorable in utilizing electron acceptors during chemical reactions. This promotes removal of organic mass from the contaminated groundwater by indigenous bacteria in the subsurface. Refer to Table 6 for detailed bioattenuation parameter trends.

2.4 Other Parameters

(See Table 3.)

Alkalinity: Alkalinity is a general water quality parameter. High alkalinity levels are a result of interaction between carbon dioxide (a product of several biodegradation processes) and aquifer minerals. Due to the inconclusive data collected during previous groundwater monitoring events in connection with the bioattenuation process, no alkalinity data was collected during the current or previous groundwater monitoring events.

Chloride: Chloride is the final product of the reduction of chlorinated solvents, and also a general water quality parameter. Due to the inconclusive data collected during previous groundwater monitoring events in connection with the bioattenuation process, no chloride data was collected during this or previous groundwater monitoring events.

Carbon Dioxide: Carbon dioxide is a product of several biodegradation processes. Due to the inconclusive data collected during previous groundwater

monitoring events in connection with the bioattenuation process, no carbon dioxide data was collected during recent groundwater monitoring events.

Iron: Ferric iron may be used as an electron acceptor during anaerobic biodegradation. During this process, ferric iron is reduced to ferrous iron that may be soluble in water. Ferric iron concentrations may be obtained by subtracting ferrous iron concentrations from total iron concentrations. Total iron was detected in all the sampled wells. Detectable total iron concentrations ranged from 0.07 mg/L in GW-2 to the equipment maximum allowable tolerance level of 3.30 mg/L in B-10R, LFR-2, and LFR-4.

Nitrite: Nitrate may reduce to nitrite during the process of anaerobic biodegradation. Nitrite was below the equipment minimal tolerance level in GW-4 and MPE-5. Detectable nitrite concentrations ranged from 0.003 in MW-11 to 0.073 mg/L in LFR-4.

Sulfide: When sulfate is used as an electron acceptor for anaerobic biodegradation it is reduced to sulfide. Due to the inconclusive data collected during previous groundwater monitoring events in connection with the bioattenuation process, sulfide data was not collected during the current groundwater monitoring event.

pH, Temperature, and Conductivity: The pH of groundwater affects activity of microbial populations in the groundwater, with optimal pH values ranging from 6 to 8 standard units for microbes capable of degrading PCE and other chlorinated aliphatic hydrocarbons. Groundwater temperature affects metabolic activity of bacteria, and groundwater conductivity is directly related to the concentration of ions in solution. The pH, temperature, and conductivity values are included in Table 3.

3. FREE PRODUCT REMOVAL ACTIVITIES

Prior to installation of a skimmer pump in SOMA-4 on January 28, 2004, over 9 feet of FP was on the surface of groundwater in this well. On February 6, 2004, SOMA installed a flexible axial peristaltic pump (FAP system) in SOMA-4 to remove FP.

In August 2004, SOMA converted borings B-3 and B-8 into wells for removal of FP from these locations. The FAP system was installed in B-8, in addition to the February 2004 installation in SOMA-4, to remove FP. As of March 2008, approximately 1,895 gallons of FP and contaminated groundwater were removed by the FAP from these two wells, and transported off-site by NRC. SOMA has been frequently checking levels of, and removing, FP.

During the First Semi-Annual 2008 monitoring event, FP was unexpectedly observed in wells B-10 and SOMA-2 at 2.76 feet and 0.71 feet, respectively.

During MPE pilot testing (September-October 2008), an additional 60 gallons of FP was removed from the extraction wells.

In June 2009, during the field investigation FP was observed in MPE-2 and MPE-3. During the current monitoring event, FP was observed in SOMA-2 and MPE-3 at 0.18 feet and 0.14 feet, respectively. Table 7 shows field observations for extraction wells SOMA-4, B-8, B-10, SOMA-2, and MPE wells.

Figure 18 illustrates historical FP thickness measured in extraction wells.

4. MULTI-PHASE EXTRACTION (MPE) PILOT TESTING

Currently, extended MPE pilot testing is being conducted at the site using B-8, B-10, SOMA-4, and SOMA-2. The testing began in September 2008, continued until October 2008, and was resumed on December 17, 2008. Results of the ongoing MPE pilot testing are documented in SOMA's report, "Site Investigation, Monitoring Well Modifications, Extraction Well Installation, and Continued MPE Pilot Testing" dated August 17, 2009. Currently, SOMA is focusing on MPE-2, MPE-3 and SOMA-2 to remove the free product from these wells.

5. FINDINGS REGARDING CURRENT ENVIRONMENTAL CONDITIONS, AND RECOMMENDATIONS

5.1 Current Environmental Conditions

Based on data obtained during the Second Semi-Annual 2009 groundwater monitoring event, current environmental conditions at the site are as follows:

1. All analyzed constituents in the farthest downgradient well, LFR-3, were below laboratory-reporting limits except for PCE (detected at 0.5 µg/L). Results are consistent with modeling performed by SOMA which predicted that PCE would barely reach LFR-3. Furthermore, all analyzed constituents in the farthest upgradient well, MW-11, were below laboratory-reporting limits.
2. Data collected to date regarding distribution of PCE and other VOCs in groundwater demonstrate that PCE has degraded into some of its breakdown products in certain groundwater monitoring wells.
3. During the current event, SOMA-2 and MPE-3 were not sampled due to the presence of FP. Results of this sampling event showed a significant decrease in PCE and TCE levels in B-10R, since the sampling event of

February and March 2008, when FP was discovered for the first time in B-10 and SOMA-2. Since the previous monitoring event (First Semi-Annual 2009) and post reconstruction, PCE and TCE have decreased in B-10R.

4. PCE typically degrades into TCE, then cis-1,2-DCE and then trans-1,2-DCE (at much lower concentrations than cis-1,2-DCE), then to VC, ethane and ethene and, finally, to carbon dioxide, water, and chloride. This sequence of degradation would be anticipated where biological reductive dehalogenation of PCE is occurring. The presence of TCE in B-10R, GW-2, GW-3, LFR-1, SOMA-1, SOMA-3 and MPE-1 demonstrates that PCE degradation is occurring. The presence of cis-1,2-DCE in B-8R, B-10R, GW-3, LFR-1, LFR-2, SOMA-1, SOMA-3, SOMA-4R, MPE-1, MPE-2, MPE-4, and MPE-5 indicates the occurrence of dechlorination of PCE in the subsurface.
5. Results of DO, nitrate, manganese, sulfate, ferrous iron, methane, and ORP measurements demonstrate that conditions in the apparent source area are conducive to reductive dechlorination processes.
6. In general, the region near B-10R, SOMA-2, SOMA-4R, MPE-2, MPE-3, and MPE-4 appears to be more impacted by chemicals of potential concern. This is due to the presence of FP in this area.
7. It is expected that concentrations of dissolved-phase chemicals will decrease due to ongoing dehalogenation processes in subsurface and that concentrations of chemicals of concern will approach the Environmental Screening Levels set forth by the CRWQCB, San Francisco Bay Region.

5.2 Recommendations

SOMA recommends continuing MPE pilot testing at the site, utilizing modified wells B-8R, B-10R, SOMA-4R and newly installed MPE wells, to remove TPH-g, TPH-ss and VOCs from the smear zone. This will create an effective capture zone to prevent migration of the groundwater chemical plume to off-site areas.

TABLES

Table 1
Construction Data for Temporary Sampling Points and Monitoring Wells
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Location	Date Installed	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Total Depth (feet)	Screen Interval Depth (feet)	Screen Interval Elevation (feet)
Temporary Sampling Points Installed by Geosolv, LLC						
B-2	19-Aug-97	82.20	82.09	21	5 to 21	77.2 to 61.2
B-3 ¹	19-Aug-97	82.60	82.57	18	5 to 18	77.6 to 64.6
B-7	20-Aug-97	77.33	76.96	17.5	5 to 17.5	72.3 to 59.8
B-8	20-Aug-97	82.06	81.82	24	9 to 24	73.1 to 58.1
B-9	21-Aug-97	77.57	77.37	19.5	4.5 to 19.5	73.1 to 58.1
B-10	21-Aug-97	81.65	81.50	19	4 to 9	77.7 to 62.7
B-13	22-Aug-97	85.12	84.58	20	5 to 20	80.1 to 65.1
Temporary Sampling Points Installed by LFR						
GW-1	16-Jul-99	80.24	79.94	8	3 to 8	77.2 to 72.2
GW-2	16-Jul-99	79.44	79.14	20	10 to 20	69.4 to 59.4
GW-3	15-Jul-99	78.48	77.92	20	10 to 20	68.5 to 58.5
GW-4	16-Jul-99	82.55	82.37	12	7 to 12	75.6 to 70.6
GW-5	15-Jul-99	81.31	81.01	13	8 to 13	73.3 to 68.3
GW-6 ²	15-Jul-99	81.91	81.65	13.5	7.5 to 13.5	74.4 to 68.4
GW-6A ²	16-Jul-99	81.93	81.61	15	5 to 15	76.9 to 66.9
GW-7 ²	15-Jul-99	81.30	NS	20	10 to 20	71.3 to 61.3
GW-8 ²	16-Jul-99	80.28	80.10	20	10 to 20	70.3 to 60.3
Temporary Sampling Points Installed by TOSCO						
MW-8	unknown	NS	87.44	unknown	unknown	unknown
MW-9	unknown	NS	86.56	unknown	unknown	unknown
MW-11	unknown	NS	84.13	unknown	unknown	unknown
Groundwater Monitoring Wells Installed by LFR						
LFR-1	28-Jul-00	NS	79.97	19	9 to 19	unknown
LFR-2	27-Jul-00	NS	81.89	19	9 to 19	unknown
LFR-3	27-Jul-00	NS	77.96	22	12 to 22	unknown
LFR-4	28-Jul-00	NS	81.65	19	9 to 19	unknown
Groundwater Monitoring Wells Installed by SOMA						
SOMA-1	4-Oct-01	82.31	81.64	40	25 to 40	42.31 to 57.71
SOMA-2 *	11-Oct-01	84.61	84.38	20	10 to 20	61.62 to 71.62
SOMA-3	11-Oct-01	81.65	81.42	30	21 to 26	60.65 to 71.51
SOMA-4	12-Oct-01	81.51	81.09	20	10 to 20	61.51 to 71.51
SOMA-5	12-Oct-01	61.68	81.50	26	21 to 26	55.68 to 60.68
B-8R	19-May-09	85.07	84.66	20	5 to 20	79.66 to 64.66
B-10R	18-May-09	84.60	83.98	20	5 to 20	78.98 to 63.98
SOMA-4R	18-May-09	84.49	83.95	20	5 to 20	78.95 to 63.95
MPE-1	21-May-09	84.65	84.41	20	2.5 to 20	81.91 to 64.41
MPE-2	21-May-09	85.09	84.66	20	2.5 to 20	82.16 to 64.66
MPE-3	22-May-09	85.14	84.87	20	2.5 to 20	82.37 to 64.87
MPE-4	21-May-09	84.80	84.45	20	2.5 to 20	81.95 to 64.45
MPE-5	19-May-09	85.23	84.64	20	2.5 to 20	82.14 to 64.64

Notes:

- ¹ Top of casing surveyed on south side on January 21, 2000, because the casing was broken.
- ² GW-7 was abandoned on July 15, 1999, in accordance with LFR's workplan dated May 6, 1999. GW-6 and GW-8 were abandoned on July 26, 2000, in accordance with LFR's workplan dated June 14, 2000.

NS = Not surveyed.

* SOMA-2 was resurveyed along with the new MPE wells in July 2009

Table 2
Historical Groundwater Elevation Data (feet)
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Date	B-2	B-3	B-7	B-8	B-8R	B-9	B-10	B-10R	B-13
11-Aug-09	72.11	72.03	DRY		73.01	64.79		71.79	DRY
9-Feb-09	73.46	73.72	DRY	70.52		66.72	70.63		DRY
21-Aug-08	71.98	72.65	DRY	68.80		66.64	70.47		DRY
19-Feb-08	78.05	74.51	DRY	68.27		68.33	69.75		64.58
23-Aug-07	70.45	71.54	DRY	64.66		63.89	67.76		75.59
28-Feb-07	78.13	76.18	Dry	70.80		70.14	74.18		75.77
05-Jul-06	74.24	74.86	68.78	62.47		68.81	72.70		75.66
05-Jan-06	79.72	77.85	71.76	74.02		71.28	74.91		NM
05-Jul-05	74.49	75.23	69.05			69.05	72.91		DRY
1-Feb-05	75.67	76.19	72.85			69.76	73.54		75.90
03-Aug-04	73.52	73.46	68.03	73.90		68.22	72.13		75.57
29-Jan-04	74.99	75.31	70.01			69.24	73.07		75.66
29-Jul-03	73.99	73.83	68.53	72.39		68.67	72.58		75.80
18-Feb-03	75.83	75.55	69.94	73.01		70.00	73.87		75.77
22-Oct-02	73.29	73.06	67.98	71.43		68.10	72.09		NM
17-Jul-02	74.02	73.82	NM	72.37		68.59	72.51		NM
16-Apr-02	75.16	75.34	69.41	73.54		69.38	73.21		NM
31-Jan-02	77.35 ^(FP)	77.16 ^(FP 0.5)	70.79	75.03 ^(FP 0.5)		70.43	74.14		77.53 ^(FP 0.7)
18-Oct-01	73.26 ^(0.25 FP)	73.24 ^(1 FP)	67.89	69.51 ^(2.1 FP)		67.98	71.96		DRY
26-Jul-01	73.86	73.17	68.69	70.41		68.73	72.61		DRY
26-Apr-01	75.26	74.00	69.60	73.19		69.80	73.61		
29-Jan-01	74.63	75.06	69.11	74.23		69.33	73.20		
2-Nov-00									
31-Oct-00									
30-Oct-00	74.34	74.84 ^(FP)	69.01	73.32		69.42	73.35		DRY
10-Aug-00									
9-Aug-00	73.9 ^(FP)	74.55 ^(FP)	68.61	72.8 ^(FP)		68.82	72.65		75.23
27-Apr-00	75.41 ^(FP)	75.86 ^(FP)	69.85 ^(FP)	74.14 ^(FP)		69.96	73.70		75.87
25-Jan-00									
24-Jan-00	75.93 ^(FP)	75.83	69.66 ^(FP)	72.84		70.25 ^(FP)	74.15 ^(FP)		
21-Jan-00									76.32
20-Jan-00									
19-Jan-00	73.97 ^(FP)	73.22 ⁽²⁾	68.6 ^(FP)	71.81 ^(FP)		68.91 ^(FP)	73.02 ^(FP)		74.18
27-Aug-99									
18-Feb-98	78.16 ⁽¹⁾	78.04 ⁽¹⁾	71.57 ⁽¹⁾	76.64 ⁽¹⁾		71.44 ⁽¹⁾	75.13 ⁽¹⁾		78.51 ⁽¹⁾
26-Oct-97	72.66 ⁽¹⁾	73.64 ⁽¹⁾	68.09 ⁽¹⁾	71.11 ⁽¹⁾		68.39 ⁽¹⁾	72.26 ⁽¹⁾		73.02 ⁽¹⁾

Table 2
Historical Groundwater Elevation Data (feet)
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Date	GW-1	GW-2	GW-3	GW-4	GW-5	GW-6A	GW-8	MW-8	MW-9	MW-11
11-Aug-09	DRY	67.60	67.45	DRY	68.65	67.67	NM	76.54	75.99	72.43
9-Feb-09	DRY	67.28	68.01	74.87	68.59	67.76	NM	77.23	76.83	71.64
21-Aug-08	DRY	66.59	67.88	DRY	68.88	67.70	NM	76.38	75.94	68.43
19-Feb-08	DRY	60.89	67.15	74.81	69.10	67.94	NM	76.70	76.00	69.82
22-Aug-07	DRY	DRY	66.71	DRY	68.54	67.89	NM	75.98	75.15	70.70
28-Feb-07	72.31	69.95	68.39	74.90	69.73	68.13	NM	79.05	78.64	71.30
05-Jul-06	71.94	69.74	66.49	70.37	68.96	68.01	NM	77.74	77.72	72.47
05-Jan-06	72.13	70.29	68.06	75.08	70.59	69.01	NM	80.66	79.96	71.51
5-Jul-05	DRY	69.38	67.03	73.57	69.53	68.03	NM	77.81	77.73	70.21
1-Feb-05	72.13	68.72	67.91	74.40	69.89	68.04	NM	78.46	78.42	71.68
3-Aug-04	72.13	68.19	67.54	72.54	69.46	67.93	NM	NM	NM	73.22
29-Jan-04	NM	68.37	68.05	74.69	68.71	68.00	NM	77.82	78.76	74.08
29-Jul-03	NM*	68.69	67.67	72.61	68.82	67.97	NM	77.44	77.11	73.78
18-Feb-03	NM*	69.02	68.26	74.75	70.35	67.97	NM	78.82	78.59	74.68
22-Oct-02	NM*	67.92	67.78	71.70	68.67	67.85	NM	76.89	76.51	73.12
17-Jul-02	NM*	68.61	67.78	72.65	68.76	67.95	NM	77.27	77.12	73.90
16-Apr-02	NM	69.76	68.14	74.11	68.68	68.07	NM	77.97	NM	74.98
31-Jan-02	-	69.77	68.28	74.83	68.78	68.06		78.86	79.41	75.48
18-Oct-01	NM	67.91	67.67	74.22	68.41	67.81		76.81	76.46	72.97
26-Jul-01	NM	68.55	67.84	73.85	68.77	68.00		77.40	77.03	73.73
26-Apr-01	NM	69.41	67.93	74.59	68.43	68.43				74.81
29-Jan-01	71.99	68.62	67.89	74.92	68.61	67.90		78.14	77.95	73.79
2-Nov-00								78.38	78.31	
31-Oct-00										
30-Oct-00		68.45	67.95	74.55	68.64	68.16				73.62
10-Aug-00								77.26	77.14	
9-Aug-00	DRY	69.11	66.54	DRY	68.71	67.88				74.12
27-Apr-00	DRY	70.59	68.16	73.97	68.70	68.00	71.34	79.15	77.25	75.35
25-Jan-00										73.48
24-Jan-00										
21-Jan-00		68.32		74.33						
20-Jan-00			67.93		68.61		70.42			
19-Jan-00	DRY	68.24	67.86	74.71	68.61	67.63	70.44			
27-Aug-99	DRY	68.46	67.66	NM	68.71	67.71	70.60			
18-Feb-98										
26-Oct-97										

Table 2
Historical Groundwater Elevation Data (feet)
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Date	LFR-1	LFR-2	LFR-3	LFR-4	SOMA-1	SOMA-2	SOMA-3	SOMA-4	SOMA-4R	SOMA-5
11-Aug-09	69.95	69.44	66.17	67.09	66.79	71.69	68.59		71.80	56.92
9-Feb-09	70.42	70.74	66.37	67.51	66.86	70.69	67.97	69.00		59.28
21-Aug-08	69.81	69.57	65.20	66.02	65.63	70.63	67.24	67.27		56.49
19-Feb-08	69.94	70.90	61.64	62.35	61.04	71.39	64.87	64.51		56.51
23-Aug-07	69.64	69.18	60.03	62.52	59.51	69.72	63.23	63.05		DRY
28-Feb-07	70.98	73.41	67.90	69.99	69.10	73.73	70.96	71.63		61.57
05-Jul-06	70.36	71.29	67.60	69.33	68.99	72.59	71.02	71.11		78.70
05-Jan-06	70.97	74.56	69.04	NM	70.11	77.59	71.99	FP		76.78
5-Jul-05	70.26	71.52	67.45	69.31	68.55	75.77	70.65	FP		78.66
1-Feb-05	70.61	72.64	68.09	NM	69.08	73.20	71.05	NM		78.92
3-Aug-04	70.13	70.70	66.42	NM	67.24	69.34	72.03	NM		62.18
28-Jan-04	70.41	NM	67.44	69.13	68.33	73.34	73.00	FP		58.50
29-Jul-03	70.18	70.96	66.71	68.37	67.84	69.84	72.48	FP		57.18
18-Feb-03	70.63	73.08	67.61	69.44	68.77	70.74	73.77	NM		56.59
22-Oct-02	70.00	70.48	66.13	67.85	66.92	69.00	72.01	NM		59.43
17-Jul-02	70.18	70.98	67.67	68.33	67.62	72.40	69.64	NM		59.53
16-Apr-02	70.36	71.71	67.60	69.27	68.85	73.06	70.90	68.56		59.48
31-Jan-02	70.56	71.92	67.72	NM	69.36	73.98	71.46	69.79 ^(FP 2.5)		57.38
18-Oct-01	70.04	70.53	66.09	67.74	67.89	71.86	68.32	69.77		NM
26-Jul-01	70.16	70.92	66.56	68.33						
26-Apr-01	70.23	71.90	67.62	68.87						
29-Jan-01	70.44	72.04	66.96	67.92						
2-Nov-00										
31-Oct-00				68.14						
30-Oct-00	70.22	71.62	66.99							
10-Aug-00										
9-Aug-00	70.16	69.99	66.76	68.39						
27-Apr-00										
25-Jan-00										
24-Jan-00										
21-Jan-00										
20-Jan-00										
19-Jan-00										
27-Aug-99										
18-Feb-98										
26-Oct-97										

Table 2
Historical Groundwater Elevation Data (feet)
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Date	MPE-1	MPE-2	MPE-3	MPE-4	MPE-5
11-Aug-09	72.31	72.22	73.54	72.71	74.45

Notes:

1= Survey elevation and water-level measurement taken at concrete surface. Elevations and water levels without a "1" in Notes Column were measured from top of casing.

2= Top of the casing was re-surveyed because it was broken.

water levels without a "1" were measured from top of casing.

2= Top of the casing was re-surveyed because it was broken.

NM: not measured

FP= Floating product or sheen was observed.

* Monitoring well GW-1 was dry

Monitoring wells MW-8, MW-9, and LFR-4 were inaccessible in Third Quarter 2004

MPE-1 through MPE-5 were installed May 2009

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
Temporary Sampling Points Installed by Geosolv, LLC												
B-7	11-Aug-00	760	39	202				<0.0005	<0.0005	6.86	17.55	1279
B-7 field	11-Aug-00					-1.00	0.05					
	31-Oct-00	760	42	200	14.00	<0.1	<2.0					
B-7 field	31-Oct-00				17.22	-1.00	-1.00			6.16	16.05	1454
	31-Jan-00	720	43	170	12.00	<0.1	<2.0					
B-7 field	31-Jan-00									6.79	13.90	1424
	26-Apr-01				>3.3	0.24				6.59	16.30	1340
	26-Jul-01				15.30	0.02				6.39	15.97	1400
B-8R	12-Aug-09	NM	NM	NM	1.00	0.043	NM	NM	NM	6.48	18.17	1222
B-10 field	10-Aug-00					0.02	0.06					
B-10	31-Oct-00	500	76	120	6.60	<0.1	<2.0					
	31-Oct-00				8.35	0.00	0.00			6.21	16.62	1051
	31-Jan-01	480	81	72	6.10	<0.1	<2.0					
	31-Jan-01				1.44	0.07				6.81	14.66	1117
	11-Jun-01				1.31					6.65	16.70	1090
	26-Jul-01				6.50	0.00				6.38	16.09	1160
	10-Aug-01	520	74	145	6.00	<0.05	<0.04	<0.0005	0.00	6.86	16.80	1130
	6-Jul-05	NM	NM	NM	3.30	0.348	NM	<0.005	<0.005	6.70	16.55	1420
	9-Jan-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.68	16.48	1410
	6-Jul-06	NM	NM	NM	3.30	0.122	NM	<0.005	<0.005	7.19	15.80	1170
	1-Mar-07	NM	NM	NM	3.20	0.000	NM	<0.005	<0.005	7.12	10.79	776
	23-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	20-Feb-08	NM	NM	NM	3.30	0.244	NM	NM	NM	NM	NM	NM
	21-Aug-08	NM	NM	NM	3.30	0.196	NM	NM	NM	6.83	20.43	380
	10-Feb-09	NM	NM	NM	3.30	0.012	NM	NM	NM	6.89	14.33	7
B-10R	12-Aug-09	NM	NM	NM	3.30	0.070	NM	NM	NM	6.21	18.89	1083
Temporary Sampling Points Installed by LFR												
GW-2	01-Nov-00									6.31	18.97	1218
	30-Jan-01			63								
GW-2 field	31-Jan-01									6.82	13.75	846
	26-Apr-01				0.02					6.80	19.50	874
	26-Jul-01				0.03	0.02				6.74	20.30	803
	19-Oct-01	NM	NM	NM	NM	NM	NM	NM	NM	6.84	21.30	786

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
GW-2 cont.	31-Jan-02	NM	NM	NM	1.05	0.01	NM	NM	NM	6.70	17.70	797
	16,17-Apr-02	NM	NM	NM	0.65	0.02	NM	NM	NM	6.38	17.00	707
	17,18-Jul-02	NM	NM	NM	1.39	0.00	NM	NM	NM	6.35	17.75	798
	23-Oct-02	NM	NM	NM	0.12	0.04	NM	NM	NM	6.73	19.78	670
	19-Feb-03	NM	NM	NM	0.10	0.02	NM	NM	NM	6.86	18.10	607
	29-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	7.26	20.10	651
	29-Jan-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.72	18.00	542
	4-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.85	19.92	561
	2-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.82	18.34	503
	6-Jul-05	NM	NM	NM	0.00	0.00	NM	<0.005	<0.005	6.78	19.07	529
	6-Jan-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.88	17.89	510
	6-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.99	17.80	657
	28-Feb-07	NM	NM	NM	0.37	0.024	NM	<0.005	<0.005	6.27	16.70	544
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	20-Feb-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
22-Aug-08	NM	NM	NM	0.30	0.032	NM	NM	NM	6.55	22.66	422	
9-Feb-09	NM	NM	NM	0.22	0.004	NM	NM	NM	6.59	17.40	614	
11-Aug-09	NM	NM	NM	0.07	0.000	NM	NM	NM	6.46	20.21	585	
GW-3 GW-3 field GW-3 field GW-3 field	11-Aug-00	340	25	54				<0.0005	<0.0005	7.05	21.43	860
	11-Aug-00					0.05	-1.00					
	1-Nov-00									6.52	18.83	967
	1-Feb-01			54								
	29-Jan-01									6.89	17.29	602
	11-Jun-01				0.00	0.70				5.68	16.20	673
	26-Jul-01				0.14	0.00				6.53	22.25	547
	19-Oct-01	NM	NM	NM	0.00	NM	NM	NM	NM	6.84	22.56	590
	31-Jan-02	NM	NM	NM	0.14	0.01	NM	NM	NM	6.70	18.40	593
	16,17-Apr-02	NM	NM	NM	0.00	0.00	NM	NM	NM	6.64	16.61	526
	17,18-Jul-02	NM	NM	NM	1.08	0.01	NM	NM	NM	6.32	17.10	545
	23-Oct-02	NM	NM	NM	0.00	0.00	NM	NM	NM	6.36	19.80	425
	19-Feb-03	NM	NM	NM	0.08	0.01	NM	NM	NM	6.77	17.80	412
	29-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	7.07	19.40	490
	29-Jan-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.65	18.20	450
	3-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.74	20.20	436
	2-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.28	19.39	445
	6-Jul-05	NM	NM	NM	0.00	0.00	NM	<0.005	<0.005	6.90	18.99	415
	6-Jan-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.89	18.75	471
6-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.90	17.30	560	
1-Mar-07	NM	NM	NM	0.14	0.010	NM	<0.005	<0.005	6.59	16.15	518	
23-Aug-07	NM	NM	NM	0.07	0.210	NM	<0.005	<0.005	6.58	19.71	412	
20-Feb-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.62	18.66	275	
22-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.10	21.52	463	
9-Feb-09	NM	NM	NM	0.10	0.009	NM	NM	NM	6.38	17.90	440	
11-Aug-09	NM	NM	NM	0.13	0.014	NM	NM	NM	6.30	20.47	505	

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Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
GW-4	30-Jan-01									6.60	13.48	479
	26-Jul-01				2.00	0.04				6.45	19.44	827
	19-Oct-01	NM	NM	NM	11.00	NM	NM	NM	NM	6.79	18.36	732
	31-Jan-02	NM	NM	NM	12.70	0.01	NM	NM	NM	6.50	12.00	414
	16,17-Apr-02	NM	NM	NM	6.40	0.03	NM	NM	NM	6.34	13.98	467
	17,18-Jul-02	NM	NM	NM	>3.3	0.03	NM	NM	NM	6.49	21.93	572
	23-Oct-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	19-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.67	13.60	466
	30-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	7.30	18.70	430
	29-Jan-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.85	13.00	534
	3-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.96	22.62	509
	1-Feb-05	NM	NM	NM	3.30	0.00	NM	NM	NM	6.80	13.25	382
	6-Jul-05	NM	NM	NM	3.30	0.028	NM	<0.005	<0.005	6.98	18.71	403
	5-Jan-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.72	17.98	610
	28-Feb-07	NM	NM	NM	3.30	0.000	NM	<0.01	<0.01	6.70	12.63	369
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
20-Feb-08	NM	NM	NM	1.18	0.000	NM	NM	NM	6.54	13.42	248	
21-Aug-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
10-Feb-09	NM	NM	NM	3.30	0.000	NM	NM	NM	6.45	17.67	487	
11-Aug-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
Monitoring Wells Owned by TOSCO												
MW-11	10-Aug-00	360	110	216	0.13	<0.05	<0.04	<0.0005	<0.0005	6.47	21.00	1
MW-11 field	10-Aug-00					0.04	0.00					
	1-Nov-00	300	120	190	<0.05	<0.1	<2.0					
MW-11 field	1-Nov-00				0.01	0.00	-1.00			5.83	20.13	1
MW-11 field	31-Jan-01	330	130	150	<0.05	<0.1	<2.0					
	31-Jan-01									6.35	13.67	1
	26-Apr-01				0.01					5.67	18.00	1210
	26-Jul-01				0.00	0.02				6.02	19.85	1120
	19-Oct-01	NM	NM	NM	0.00	NM	NM	NM	NM	6.41	21.25	130
	31-Jan-02	NM	NM	NM	0.05	0.04	NM	NM	NM	6.60	18.50	1090
	16,17-Apr-02	NM	NM	NM	0.00	0.00	NM	NM	NM	5.87	18.70	1150
	17,18-Jul-02	NM	NM	NM	0.00	0.02	NM	NM	NM	6.27	18.37	1180
	23-Oct-02	NM	NM	NM	0.00	0.04	NM	NM	NM	6.62	20.81	1220
	18-Feb-03	NM	NM	NM	0.00	0.04	NM	NM	NM	6.49	19.50	1170
	30-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	6.92	19.70	941
	29-Jan-04	NM	NM	NM	0.00	1.80	NM	NM	NM	6.61	19.00	1000
	3-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	8.86	21.70	825
	1-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.43	20.55	856
	5-Jul-05	NM	NM	NM	0.13	0.00	NM	<0.005	<0.005	6.16	20.25	1130
	5-Jan-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.39	20.61	817
5-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.61	19.10	1120	
28-Feb-07	NM	NM	NM	0.74	0.000	NM	<0.005	<0.005	6.71	16.34	1100	
22-Aug-07	NM	NM	NM	0.01	0.000	NM	<0.005	<0.005	5.46	19.97	865	
19-Feb-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.51	19.36	1081	
22-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.61	22.07	676	
10-Feb-09	NM	NM	NM	0.23	0.007	NM	NM	NM	6.39	21.73	1130	
12-Aug-09	NM	NM	NM	0.16	0.003	NM	NM	NM	6.00	19.91	1008	

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Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
Monitoring Wells Installed by LFR												
LFR-1	11-Aug-00	250	110	51				<0.0005	<0.0005	6.97	19.73	936
LFR-1 field	09-Aug-00					0.02	-1.00					
	30-Oct-00	240	100	25	<0.05	<0.1	<2					
LFR-1 field/sp	30-Oct-00				0.01/0.01	0.031/0.036	0.001/0.001			6.38	17.94	697
LFR-1-spl	30-Oct-00	220	100	40	<0.05	<0.1	<2					
LFR-1 field	29-Jan-01	150	76	28	<0.05	<0.1	<2					
LFR-1 Dup	29-Jan-01				0.00	0.04				6.82	15.00	870
	29-Jan-01	150	75	26	<0.05	<0.1	<2					
	26-Apr-01				0.00					5.76	16.80	980
	26-Jul-01				0.05	0.01				6.48	19.38	772
	26-Jul-01	NM	NM	NM	0.42	NM	NM	NM	NM	6.73	20.83	661
	31-Jan-02	NM	NM	NM	0.03	0.01	NM	NM	NM	6.50	16.50	879
	16,17-Apr-02	NM	NM	NM	0.75	0.02	NM	NM	NM	5.88	16.37	1120
	17,18-Jul-02	NM	NM	NM	0.22	0.01	NM	NM	NM	6.40	17.02	832
	23-Oct-02	NM	NM	NM	0.30	0.00	NM	NM	NM	6.54	20.09	803
	18-Feb-03	NM	NM	NM	0.40	0.00	NM	NM	NM	6.47	16.90	607
	30-Jul-03	NM	NM	NM	0.02	0.00	NM	NM	NM	6.92	19.20	1330
	29-Jan-04	NM	NM	NM	0.00	5.10	NM	NM	NM	6.62	18.00	830
	4-Aug-04	NM	NM	NM	0.47	0.00	NM	NM	NM	6.39	19.01	1260
	2-Jan-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.73	17.80	744
	6-Jul-05	NM	NM	NM	0.09	0.002	NM	<0.005	<0.005	6.69	18.26	1360
	6-Jan-06	NM	NM	NM	0.03	0.000	NM	<0.005	<0.005	6.31	19.06	1260
	6-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.59	17.10	1270
	1-Mar-07	NM	NM	NM	0.45	0.000	NM	<0.005	<0.005	6.15	14.51	787
	23-Aug-07	NM	NM	NM	0.22	0.011	NM	<0.005	<0.005	5.45	19.42	642
	19-Feb-08	NM	NM	NM	0.08	0.000	NM	NM	NM	6.50	17.29	690
	22-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.50	21.13	432
	9-Feb-09	NM	NM	NM	0.00	0.000	NM	NM	NM	6.32	16.20	482
	11-Aug-09	NM	NM	NM	0.41	0.009	NM	NM	NM	6.18	18.72	652
LFR-2	11-Aug-00	590	33	174				<0.0005	0.00	7.15	19.87	1088
LFR-2 field	11-Aug-00				2.95	-1.00	0.01					
	02-Nov-00	550	40	180	6.20	<0.1	<2					
LFR-2 field	02-Nov-00				7.45	0.01	0.00			6.19	19.67	1306
LFR-2 field	30-Jan-01	480	21	130	4.60	<0.1	<2					
	30-Jan-01				1.04	0.01				6.60	12.73	945
	27-Apr-01				2.97					5.64	16.40	921
	26-Jul-01				4.60	0.01				6.31	18.66	970
	18-Oct-01	NM	NM	NM	8.20	NM	NM	NM	NM	6.78	19.56	109

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Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
LFR-2 cont.	31-Jan-02	NM	NM	NM	1.97	0.05	NM	NM	NM	6.50	16.60	644
	16,17-Apr-02	NM	NM	NM	7.60	0.06	NM	NM	NM	6.19	16.43	845
	17,18-Jul-02	NM	NM	NM	8.80	0.00	NM	NM	NM	6.52	16.24	986
	23-Oct-02	NM	NM	NM	3.30	0.06	NM	NM	NM	6.84	18.09	812
	18-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.50	16.90	617
	30-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	7.15	17.30	861
	29-Jan-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.76	17.39	795
	1-Feb-05	NM	NM	NM	2.25	0.00	NM	NM	NM	6.46	17.68	559
	5-Jul-05	NM	NM	NM	3.30	0.00	NM	<0.005	<0.005	6.56	18.18	712
	5-Jan-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.58	18.23	721
	6-Jul-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.91	17.90	679
	28-Feb-07	NM	NM	NM	3.30	0.000	NM	<0.025	<0.025	6.41	16.54	782
	22-Aug-07	NM	NM	NM	3.30	0.000	NM	<0.025	<0.025	6.05	17.60	814
	20-Feb-08	NM	NM	NM	1.77	0.000	NM	NM	NM	6.58	17.52	616
21-Aug-08	NM	NM	NM	3.30	0.092	NM	NM	NM	6.68	23.60	610	
10-Feb-09	NM	NM	NM	3.30	0.009	NM	NM	NM	6.53	17.41	980	
11-Aug-09	NM	NM	NM	3.30	0.057	NM	NM	NM	6.45	18.56	943	
LFR-3	10-Aug-00	310	85	162	<0.1	0.15	0.04	<0.0005	<0.0005	6.57	19.92	951
LFR-3 split	10-Aug-00	300	85	152				<0.0005	<0.0005			
LFR-3 field	10-Aug-00					0.06	-1.00					
LFR-3 field	01-Nov-00	350	66	160	<0.05	<0.1	<2					
LFR-3 field	01-Nov-00				0.01	0.01	0.00			6.16	17.71	1164
LFR-3 field	30-Jan-01	250	31	71	<0.05	<0.1	<2					
LFR-3 field	30-Jan-01				0.03					6.64	17.29	541
LFR-3 field	11-Jun-01				0.01					5.43	18.00	613
LFR-3 field	26-Jul-01				0.70	0.03				6.25	20.50	602
LFR-3 field	18-Oct-01	NM	NM	NM	0.12	NM	NM	NM	NM	6.50	21.39	645
LFR-3 field	31-Jan-02	NM	NM	NM	0.06	0.02	NM	NM	NM	6.30	19.10	566
LFR-3 field	16,17-Apr-02	NM	NM	NM	1.20	0.04	NM	NM	NM	5.78	18.68	566
LFR-3 field	17,18-Jul-02	NM	NM	NM	0.08	0.01	NM	NM	NM	6.17	18.42	585
LFR-3 field	23-Oct-02	NM	NM	NM	1.35	0.00	NM	NM	NM	6.32	20.65	457
LFR-3 field	19-Feb-03	NM	NM	NM	0.74	0.00	NM	NM	NM	6.34	19.30	497
LFR-3 field	30-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	6.87	19.80	457
LFR-3 field	29-Jan-04	NM	NM	NM	1.70	0.00	NM	NM	NM	6.60	20.00	393
LFR-3 field	3-Aug-04	NM	NM	NM	0.34	0.00	NM	NM	NM	6.24	19.96	415
LFR-3 field	2-Feb-05	NM	NM	NM	0.12	0.00	NM	NM	NM	6.17	20.06	381
LFR-3 field	5-Jul-05	NM	NM	NM	3.30	0.205	NM	<0.005	<0.005	6.39	20.01	463
LFR-3 field	9-Dec-05	NM	NM	NM	NM	NM	NM	<0.005	<0.005	NM	NM	NM
LFR-3 field	6-Jan-06	NM	NM	NM	2.16	0.001	NM	<0.005	<0.005	6.27	20.42	461
LFR-3 field	5-Jul-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.56	20.10	640
LFR-3 field	1-Mar-07	NM	NM	NM	1.03	0.005	NM	<0.005	<0.005	6.17	17.44	514
LFR-3 field	22-Aug-07	NM	NM	NM	0.84	0.000	NM	<0.005	<0.005	5.45	20.36	547
LFR-3 field	20-Feb-08	NM	NM	NM	0.20	0.000	NM	NM	NM	6.38	19.55	607
LFR-3 field	22-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.63	21.09	406
LFR-3 field	9-Feb-09	NM	NM	NM	0.00	0.002	NM	NM	NM	6.21	17.30	453
LFR-3 field	11-Aug-09	NM	NM	NM	0.12	0.007	NM	NM	NM	6.11	19.66	482

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Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
LFR-4	11-Aug-00	630	71	161	0.22	0.02	0.00	<0.0005	<0.0005	6.90	20.11	1240
	10-Aug-00											
LFR-4 FB	11-Aug-00	490	28	130	1.00	<0.1	<2	0.00	<0.0005	6.21	18.11	830
LFR-4 field	31-Oct-00											
LFR-4 field	31-Oct-00	460	25	120	0.67	0.02	0.00	<2	0.00	6.55	15.28	916
LFR-4 field	01-Feb-01											
LFR-4 field	01-Feb-01	460	25	120	1.43	0.02	<2	0.00	0.00	6.79	18.30	1060
LFR-4 field	27-Apr-01											
LFR-4 field	26-Jul-01	460	25	120	0.95	0.00	<2	0.00	0.00	6.26	19.23	866
LFR-4 field	26-Jul-01											
LFR-4 field	16,17-Apr-02	NM	NM	NM	5.10	0.03	NM	NM	NM	6.19	18.04	925
LFR-4 field	17,18-Jul-02	NM	NM	NM	>3.3	0.01	NM	NM	NM	5.92	17.28	878
LFR-4 field	23-Oct-02	NM	NM	NM	3.30	0.00	NM	NM	NM	6.69	19.90	602
LFR-4 field	19-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.38	19.10	994
LFR-4 field	29-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.94	19.00	994
LFR-4 field	29-Jan-04	NM	NM	NM	0.71	0.00	NM	NM	NM	6.53	19.50	689
LFR-4 field	5-Jul-05	NM	NM	NM	3.30	0.00	NM	<0.005	<0.005	6.49	19.20	772
LFR-4 field	5-Jan-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LFR-4 field	5-Jul-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.75	18.90	912
LFR-4 field	1-Mar-07	NM	NM	NM	3.30	0.000	NM	<0.01	<0.01	6.46	15.75	972
LFR-4 field	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LFR-4 field	19-Feb-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LFR-4 field	21-Aug-08	NM	NM	NM	3.30	0.00	NM	NM	NM	6.13	21.38	353
LFR-4 field	10-Feb-09	NM	NM	NM	3.30	0.00	NM	NM	NM	6.38	20.16	591
LFR-4 field	11-Aug-09	NM	NM	NM	3.30	0.07	NM	NM	NM	6.22	17.62	536
Monitoring Wells Installed by SOMA												
SOMA-1	19-Oct-01	NM	NM	NM	0.75	NM	NM	NM	NM	6.77	18.15	146
	31-Jan-02	NM	NM	NM	0.00	0.00	NM	NM	NM	6.70	17.50	1160
SOMA-1	16,17-Apr-02	NM	NM	NM	0.17	0.03	NM	NM	NM	6.01	17.98	1280
SOMA-1	17,18-Jul-02	NM	NM	NM	0.11	0.01	NM	NM	NM	6.52	16.21	1270
SOMA-1	23-Oct-02	NM	NM	NM	0.24	0.01	NM	NM	NM	6.60	17.77	1270
SOMA-1	19-Feb-03	NM	NM	NM	0.00	0.01	NM	NM	NM	6.33	17.40	1350
SOMA-1	30-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	6.90	17.80	1300
SOMA-1	29-Jan-04	NM	NM	NM	2.10	0.00	NM	NM	NM	6.51	17.60	959
SOMA-1	3-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.42	17.89	956
SOMA-1	1-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.26	17.70	985
SOMA-1	5-Jul-05	NM	NM	NM	0.19	0.00	NM	<0.005	<0.005	6.36	19.36	1220
SOMA-1	5-Jan-06	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.54	18.02	926
SOMA-1	5-Jul-06	NM	NM	NM	0.30	0.011	NM	<0.005	<0.005	6.68	18.40	1150
SOMA-1	28-Feb-07	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	6.10	17.17	1140
SOMA-1	22-Aug-07	NM	NM	NM	0.00	0.000	NM	<0.005	<0.005	5.73	17.75	939
SOMA-1	20-Feb-08	NM	NM	NM	0.00	0.006	NM	NM	NM	6.53	17.93	791
SOMA-1	21-Aug-08	NM	NM	NM	0.00	0.000	NM	NM	NM	6.21	19.33	834
SOMA-1	10-Feb-09	NM	NM	NM	0.28	0.011	NM	NM	NM	6.42	19.31	779
SOMA-1	11-Aug-09	NM	NM	NM	0.10	0.009	NM	NM	NM	6.20	17.91	1102

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
SOMA-2	19-Oct-01	NM	NM	NM	44.00	NM	NM	NM	NM	6.87	16.93	122
	31-Jan-02	NM	NM	NM	10.50	0.34	NM	NM	NM	6.90	15.20	1140
	16,17-Apr-02	NM	NM	NM	8.70	0.01	NM	NM	NM	6.30	15.25	1170
	17,18-Jul-02	NM	NM	NM	>3.3	0.00	NM	NM	NM	6.86	14.19	1170
	23-Oct-02	NM	NM	NM	3.30	0.00	NM	NM	NM	6.97	16.47	1380
	19-Feb-03	NM	NM	NM	2.93	0.01	NM	NM	NM	6.86	15.70	1420
	29-Jul-03	NM	NM	NM	1.37	0.00	NM	NM	NM	7.91	16.80	1290
	28-Jan-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.65	16.60	835
	4-Aug-04	NM	NM	NM	0.34	0.00	NM	NM	NM	6.78	16.76	1180
	2-Feb-05	NM	NM	NM	3.30	0.00	NM	NM	NM	6.52	15.96	1310
	6-Jul-05	NM	NM	NM	3.30	0.00	NM	<0.005	<0.005	6.64	16.12	1290
	9-Jan-06	NM	NM	NM	3.30	0.001	NM	<0.005	<0.005	6.92	16.30	982
	6-Jul-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	7.08	16.00	1170
	1-Mar-07	NM	NM	NM	3.30	0.000	NM	<0.025	<0.025	7.24	10.16	1288
	23-Aug-07	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.20	15.98	764
	20-Feb-08	NM	NM	NM	3.30	0.000	NM	NM	NM	6.85	13.37	1434
21-Aug-08	NM	NM	NM	3.30	0.000	NM	NM	NM	7.19	17.59	834	
10-Feb-09	NM	NM	NM	3.30	0.000	NM	NM	NM	6.86	19.33	912	
11-Aug-09	NM	NM	NM	NM	NM	0.000	NM	NM	NM	NM	NM	NM
SOMA-3	19-Oct-01	NM	NM	NM	0.40	NM	NM	NM	NM	6.91	17.09	158
	31-Jan-02	NM	NM	NM	0.78	0.38	NM	NM	NM	6.50	14.90	1320
	16,17-Apr-02	NM	NM	NM	1.03	0.00	NM	NM	NM	6.23	15.83	1260
	17,18-Jul-02	NM	NM	NM	>3.3	0.00	NM	NM	NM	6.77	15.03	1290
	23-Oct-02	NM	NM	NM	3.30	0.03	NM	NM	NM	7.02	16.44	970
	19-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.87	15.80	1350
	29-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	7.27	16.20	1200
	29-Jan-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.75	16.20	925
	4-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.79	16.43	956
	2-Feb-05	NM	NM	NM	0.15	0.00	NM	NM	NM	6.62	16.64	968
	6-Jul-05	NM	NM	NM	1.12	0.00	NM	<0.005	<0.005	6.56	16.79	935
	6-Jan-06	NM	NM	NM	0.49	0.000	NM	<0.005	<0.005	6.38	16.84	1120
	6-Jul-06	NM	NM	NM	0.53	0.000	NM	<0.005	<0.005	7.11	16.00	1020
	1-Mar-07	NM	NM	NM	0.69	0.000	NM	<0.005	<0.005	6.78	14.34	528
	23-Aug-07	NM	NM	NM	1.20	0.000	NM	<0.005	<0.005	6.45	17.13	495
	20-Feb-08	NM	NM	NM	3.21	0.158	NM	NM	NM	6.98	14.19	31
21-Aug-08	NM	NM	NM	0.27	0.000	NM	NM	NM	6.62	19.87	341	
10-Feb-09	NM	NM	NM	0.90	0.008	NM	NM	NM	6.75	16.30	1149	
12-Aug-09	NM	NM	NM	0.75	0.028	NM	NM	NM	6.48	19.26	682	
SOMA-4	Oct-19-01	NM	NM	NM	0.26	NM	NM	NM	NM	6.53	16.88	145
	23-Oct-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	19-Feb-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	29-Jul-03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	5-Jul-05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	5-Jan-06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
10-Feb-09	NM	NM	NM	3.10	0.003	NM	NM	NM	6.61	19.42	1071	
SOMA-4R	12-Aug-09	NM	NM	NM	2.93	0.008	NM	NM	NM	6.25	17.86	1023

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	Alkalinity (mg/L)	Chloride (mg/L)	Carbon Dioxide (mg/L)	Total Iron (mg/L)	Nitrite (mg/L)	Sulfide (mg/L)	Ethane (mg/L)	Ethene (mg/L)	pH	Temp (°C)	Electrical Conductivity (µS/cm)
SOMA-5	4-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	7.14	16.98	773
	2-Feb-05	NM	NM	NM	3.30	0.00	NM	NM	NM	7.20	15.99	549
	6-Jul-05	NM	NM	NM	3.30	0.00	NM	<0.005	<0.005	6.75	16.99	1150
	9-Jan-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	6.78	16.72	1200
	6-Jul-06	NM	NM	NM	3.30	0.000	NM	<0.005	<0.005	7.81	16.30	454
	1-Mar-07	NM	NM	NM	NM	NM	NM	<0.025	<0.025	NM	NM	NM
	23-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	20-Feb-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	21-Aug-08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10-Feb-09	NM	NM	NM	3.30	0.000	NM	NM	NM	NM	7.07	15.80
12-Aug-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MPE-1	12-Aug-09	NM	NM	NM	NM	NM	NM	NM	NM	6.60	16.89	557
MPE-2	12-Aug-09	NM	NM	NM	NM	NM	NM	NM	NM	6.46	18.23	1043
MPE-3	12-Aug-09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MPE-4	12-Aug-09	NM	NM	NM	1.87	0.004	NM	NM	NM	6.39	19.06	839
MPE-5	12-Aug-09	NM	NM	NM	2.85	0.00	NM	NM	NM	6.41	17.11	1077

Notes

Samples with "field" in the well ID indicate that the results are from field measurements obtained using a Hach spectrometer or a Hydrolab Quanta flow-through instrument.

since April 2001, field measurements have been performed using a Hach Calorimeter

NM= not measured

MPE-1 through MPE-5 were installed May 2009

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE
in Groundwater Samples
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
Temporary Sampling Points Installed by Geosolv, LLC								
B-2	24-Jan-00	20 ^J	31 ^{YJ}	<0.05	<0.013	<0.013	0.11 ^C	0.22 ^C
B-3	24-Jan-00	4.9 ^J	8.8 ^{YJ}	<0.01	0.0048	<0.0025	<0.0025	0.0714
B-7	24-Jan-00	19	30 ^J	<0.05	<0.013	0.062	<0.013	0.207
	11-Aug-00	3.7 ^J	6.8 ^{YHJ}	0.02	0.0077 ^J	0.047 ^J	0.007 ^J	0.065 ^{CJ}
	31-Oct-00	62 ^J	98 ^{YHJ}	0.01 ^J	0.0091 ^J	0.061 ^J	<0.0005	0.237 ^J
	27-Jul-01	2.5	5.2 ^{HY}	0.0057	0.0070	0.051	0.0082	0.0740
	31-Jan-01	5.3	7.9	0.0100	0.0089	0.059	0.0097	0.0870
	26-Apr-01	4.5	8.9 ^H	0.0069	0.0110	0.071	0.077 ^C	0.2080
B-8	24-Jan-00	11 ^J	19 ^{YJ}	<0.01	<0.0025	<0.0025	<0.0025	0.17 ^C
B-8R	12-Aug-09	22	39^Y	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
B-9	24-Jan-00	1 ^{YJ}	1.8 ^{YHJ}	<0.002	<0.0005	<0.0005	0.01 ^C	0.0089 ^C
B-10	24-Jan-00	2.4 ^Y	4.2	0.0140 ^C	0.0072	0.027	0.025 ^C	0.032
	10-Aug-00	2.8 ^Y	6.1 ^Y	0.1600	0.0073	0.012	<0.005	0.0241
	31-Oct-00	2.2 ^{YZ}	3.5 ^Z	<0.002	0.0038	0.011	<0.0005	0.0182
	27-Jul-01	1.7	3.6 ^H	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	31-Jan-01	2.4 ^Z	3.6 ^{HYZ}	<0.002	0.0031	0.010	0.00076 ^C	0.0197
	26-Apr-01	2.4 ^Z	4.7 ^Z	0.0025	0.0041	0.013	ND	0.0290
	6-Jul-05	3.4 ^H	4.5 ^{HY}	<0.1	<0.1	<0.1	<0.1	<0.1
	9-Jan-06	11 ^Y	15	<0.1	<0.1	<0.1	<0.1	<0.1
	6-Jul-06	1.3	2.2 ^{HY}	<0.1	<0.1	<0.1	<0.1	<0.1
	1-Mar-07	0.5 ^L	0.810 ^{HY}	<0.1	<0.1	<0.1	<0.1	<0.1
	23-Aug-07	NA	NA	NA	NA	NA	NA	NA
	20-Feb-08	860	1,100 ^Y	<0.25	<0.25	<0.25	<0.25	<0.25
	25-Mar-08	2,000	43 ^{Yb}	<0.36	<0.36	0.75	0.42	2.12
21-Aug-08	760	1,200 ^Y	<0.083	<0.083	<0.083	<0.083	<0.083	
10-Feb-09	1.5	2.3 ^Y	<0.02	<0.02	<0.02	<0.02	<0.02	
B-10R	12-Aug-09	50	88^Y	0.067	<0.013	<0.013	<0.013	<0.013
B-13	24-Jan-00	1.7 ^J	3 ^{YJ}	<0.01	<0.0025	<0.0025	<0.0025	0.0200
Temporary Sampling Points Installed by LFR								
GW-2	19-Jul-99	<0.05	<0.05	0.0025	<0.0005	0.00071	<0.0005	0.00074
	20-Jan-00	0.15	0.25 ^Y	0.0044	<0.0005	<0.0005	0.00097 ^C	0.0013
	28-Apr-00	<0.05	0.095 ^{YZ}	<0.0021	<0.0005	<0.0005	<0.0005	<0.0005
	2-Nov-00	<0.05	<0.05	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	1-Feb-01	<0.05	ND	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-01	<0.05	0.086 ^{YZ}	0.0022	<0.0005	0.0240	<0.0005	<0.0005
	27-Jul-01	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	19-Oct-01	<0.05	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE
in Groundwater Samples
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
GW-2 cont.	31-Jan-02	<0.05	<0.05	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b
	16,17-Apr-02	<0.05	<0.05	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	22-Oct-02	<0.05	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	19-Feb-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jul-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	28-Jan-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	4-Aug-04	0.054 ^{YZ}	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Feb-05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	6-Jul-05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jan-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jul-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	NA	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA	NA
22-Aug-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9-Feb-09	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
11-Aug-09	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
GW-3	19-Jul-99	0.070 ^Z	0.100 ^Z	<0.0020	<0.0005	<0.0005	<0.0005	0.00064
	20-Jan-00	0.15	0.260 ^Y	<0.0020	<0.0005	<0.0005	<0.0005	0.00130 ^C
	27-Apr-00	0.20 ^{YZ}	0.380 ^{YZ}	<0.0020	<0.0005	<0.0005	<0.0005	<0.00050
	27-Apr-00	0.30 ^Z	0.570 ^{YZ}	<0.0020	<0.0005	<0.0005	<0.0005	<0.00050
	11-Aug-00	<0.05	0.077 ^{YZ}	<0.0020	<0.0005	<0.0005	<0.0005	0.00051
	2-Nov-00	<0.05	0.050 ^{YZ}	0.0026	<0.0005	<0.0005	<0.0005	<0.00050
	1-Feb-01	<0.05	<0.05	<.0020	<.0005	<0.0005	<0.0005	<0.00050
	27-Apr-01	<0.05	0.062 ^{YZ}	0.0056	<0.0005	<0.0005	<0.0005	<0.00050
	27-Jul-01	<0.05	<0.05	0.0008	<0.0005	<0.0005	<0.0005	<0.00050
	19-Oct-01	0.054	0.11	<0.0100	<0.0100	<0.0100	<0.0100	<0.02000
	31-Jan-02	<0.05	0.070 ^{YZ}	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.00500 ^b
	16,17-Apr-02	<0.05	0.055 ^{YZ}	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	0.11 ^{YZ}	0.140 ^{YZ}	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071
	19-Feb-03	0.068 ^{YZ}	0.100 ^{YZ}	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jul-03	0.120 ^{YZ}	0.180 ^{YZ}	<0.010	<0.010	<0.010	<0.010	<0.010
	28-Jan-04	0.051 ^{YZ}	0.086 ^{YZ}	<0.005	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	0.170 ^{YZ}	0.150 ^{YZ}	<0.017	<0.017	<0.017	<0.017	<0.017
	2-Feb-05	0.190 ^Z	0.250 ^{HYZ}	<0.031	<0.031	<0.031	<0.031	<0.031
	6-Jul-05	0.084 ^{YZ}	0.11 ^{YZ}	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	6-Jan-06	0.063 ^{YZ}	0.088 ^{YZ}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jul-06	0.091 ^{YZ}	.140 ^{YZ}	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	1-Mar-07	0.088 ^{YZ}	0.140 ^{YZ}	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017
23-Aug-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
20-Feb-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
22-Aug-08	0.079 ^Y	0.120 ^{YZ}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9-Feb-09	0.070 ^Y	0.084 ^{YZ}	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
11-Aug-09	0.075^Y	0.085^{YZ}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE
in Groundwater Samples
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
GW-4 Split	21-Jul-99	6.80 ^J	10 ^{YHJ}	0.0022	<0.0005	<0.0005	<0.0005	0.0029 ^J
	20-Jan-00	0.97 ^J	1.60 ^{YJ}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	20-Jan-00	0.85 ^J	1.50 ^{YJ}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-00	0.31	0.60 ^Y	<0.0020	<0.0005	<0.0005	<0.0005	0.0027
	30-Jan-01	0.39	0.58 ^{HY}	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	27-Jul-01	0.42	0.86 ^{HY}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	19-Oct-01	0.83	1.60	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100
	31-Jan-02	0.92	1.70 ^{HY}	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b
	16,17-Apr-02	0.40	0.67 ^{HY}	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	0.97	1.7 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	0.55	0.700 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	0.58	0.880 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	0.39	0.580 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	28-Jan-04	0.31	0.520 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	0.71	0.640 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	1-Feb-05	0.28	0.370 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	6-Jul-05	0.12	0.16 ^{HY}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jan-06	0.54	0.75 ^{HY}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
28-Feb-07	0.56	0.90 ^{HY}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
22-Aug-07	NA	NA	NA	NA	NA	NA	NA	
20-Feb-08	0.50	0.63 ^Y	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
21-Aug-08	NA	NA	NA	NA	NA	NA	NA	
10-Feb-09	0.49	0.58 ^Y	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
11-Aug-09	NA	NA	NA	NA	NA	NA	NA	
GW-5	27-Aug-99	<0.05	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Jan-00	<0.05	0.057 ^Y	0.0007	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-00	0.05 ^Y	0.096 ^Y	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
GW-6A Split	27-Aug-99	<0.05	0.054 ^Y	0.0089	<0.0005	<0.0005	<0.0005	<0.0005
	27-Aug-99	<0.05	0.057 ^Y	0.0087	<0.0005	<0.0005	<0.0005	<0.0005
	25-Jan-00	<0.05	<0.05	0.0022	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-00	<0.05	0.087 ^Y	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
GW-7 Split Split	15-Jul-99	NA	NA	<0.0025	0.05 ^J	<0.0005	0.000727	0.00313 ^J
	15-Jul-99	NA	NA	NA	NA	NA	NA	NA
	15-Jul-99	NA	NA	NA	0.0567 ^J	<0.002	<0.002	<0.002
	15-Jul-99	NA	NA	NA	0.0755 ^J	<0.002	<0.002	<0.002
GW-8 Split	19-Jul-99	<0.05	<0.05	0.0078	<0.0005	0.00064	<0.0005	0.00151
	20-Jan-00	0.19	0.33 ^Y	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	20-Jan-00	0.20	0.37 ^Y	<0.002	0.00058	<0.0005	<0.0005	<0.0005
	28-Apr-00	0.064 ^{YZ}	0.12 ^{YZ}	0.013	<0.0005	<0.0005	<0.0005	<0.0005

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE
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Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
Monitoring Wells Owned by TOSCO								
MW-11	25-Jan-00	< 0.05	<0.05	0.0090	<0.0005	<0.0005	<0.0005	<0.0005
	28-Apr-00	<0.05	<0.05	<0.0087	<0.0005	<0.0005	<0.0005	<0.0005
	10-Aug-00	<0.05	<0.05	0.0110	<0.0005	<0.0005	<0.0005	<0.0005
	1-Nov-00	<0.05	<0.05	0.0068	<0.0005	<0.0005	<0.0005	<0.0005
	31-Jan-01	< 0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	27-Jul-01	<0.05	0.10 ^{HY}	0.0010	<0.0005	<0.0005	<0.0005	0.0007
	19-Oct-01	<0.05	<0.05	<0.0050	<0.0050	<0.005	<0.005	<0.010
	31-Jan-02	<0.05	0.071 ^Y	<0.0050 ^b	<0.0050 ^b	<0.005 ^b	<0.005 ^b	<0.005 ^b
	16,17-Apr-02	<0.05	<0.05	<0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	18-Feb-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	28-Jan-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	1-Feb-05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	5-Jul-05	<0.05	<0.05	0.0008	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jan-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.05	<0.05	0.001	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
22-Aug-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
19-Feb-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
22-Aug-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10-Feb-09	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
12-Aug-09	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Monitoring Wells Installed by LFR								
LFR-1 Split	9-Aug-00	0.53	1.2	0.0095	<0.0005	<0.0005	<0.0005	<0.0005
	30-Oct-00	0.24 ^{YZ}	0.37 ^{YZ}	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	30-Oct-00	0.24 ^{YZ}	0.37 ^{YZ}	0.0043	<0.0005	<0.0005	<0.0005	<0.0005
	29-Jan-01	0.21 ^{YZ}	0.31 ^{YZ}	0.0033	<0.0005	<0.0005	<0.0005	<0.0005
	26-Apr-01	0.092	0.18 ^{YZ}	0.0044	<0.0005	0.002	<0.0005	<0.0005
	27-Jul-01	0.086	0.18 ^{YZ}	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	18-Oct-01	0.19	0.38	<0.031	<0.031	<0.031	<0.031	<0.062
	31-Jan-02	0.15 ^{YZ}	0.27 ^{YZ}	<0.013 ^b	<0.013 ^b	<0.013 ^b	<0.013 ^b	<0.013 ^b
	16,17-Apr-02	0.10 ^{YZ}	0.17 ^{YZ}	< 0.013	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	0.084 ^{YZ}	0.14 ^{YZ}	<0.013	<0.013	<0.013	<0.013	<0.013
	22,23-Oct-02	<0.05	0.078 ^{YZ}	<0.005	<0.005	<0.005	<0.005	<0.005
	18-Feb-03	0.076 ^{YZ}	0.110 ^{YZ}	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	<0.05	0.068 ^{YZ}	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	0.060 ^{YZ}	0.100 ^{YZ}	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063
	4-Aug-04	<0.05	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Feb-05	<0.05	0.056 ^{YZ}	<0.005	<0.005	<0.005	<0.005	<0.005
	6-Jul-05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jan-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jul-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1-Mar-07	<0.05	0.053 ^{YZ}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
23-Aug-07	0.070 ^{YZ}	0.120 ^{YZ}	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	
19-Feb-08	0.062 ^Y	0.077 ^Y	<0.001	<0.001	<0.001	<0.001	0.0033	
22-Aug-08	<0.05	0.059 ^{YZ}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9-Feb-09	0.057 ^Y	0.067 ^{YZ}	<0.001	<0.001	<0.001	<0.001	<0.001	
11-Aug-09	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table 4
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Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
LFR-2	11-Aug-00	0.59	1.10 ^{YH}	0.0022	0.0018	<0.0005	<0.0005	0.0013 ^C
	2-Nov-00	0.38	0.70 ^{YH}	0.003	0.0035	0.0011	0.0042	0.01184 ^C
	30-Jan-01	0.36	0.54 ^{HY}	0.0034	0.00057	<0.0005	<0.0005	<0.0005
	27-Apr-01	0.33	0.66 ^{HY}	<0.002	<0.0005	0.0013	<0.0005	<0.0005
	27-Apr-01	0.36	0.72 ^{HY}	<0.002	0.00059	0.0019	<0.0005	0.013
	27-Jul-01	0.33	0.76 ^{HY}	<0.0005	0.0013	<0.0005	<0.0005	0.0006
	18-Oct-01	0.73	1.50	<0.0071	<0.0071	<0.0071	<0.0071	<0.0142
	31-Jan-02	0.76	1.40 ^{HY}	<0.005 ^b	<0.005 ^b	<0.005 ^b	<0.005 ^b	<0.005 ^b
	16,17-Apr-02	1.10	1.90 ^{HY}	<0.002	<0.0005	<0.0005	<0.0005	0.019 ^C
	17,18-Jul-02	0.97	1.7 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	3.10	5.000 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	18-Feb-03	1.50	2.300 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	4.10	6.000 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	NA	NA	NA	NA	NA	NA	NA
	4-Aug-04	2.50	2.2 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	1-Feb-05	1.10	1.5 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	5-Jul-05	0.95	1.3 ^{HY}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jan-06	4.00	5.6 ^{HY}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	0.49	0.770 ^{HY}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	1.20	1.9 ^{HY}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
22-Aug-07	3.70	6.4 ^{HY}	<0.0005	0.0022	<0.0005	<0.0005	<0.0005	
20-Feb-08	73	92 ^Y	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
21-Aug-08	15	23 ^Y	<0.0083	0.0059	0.0017	<0.0005	<0.0005	
10-Feb-09	3.4	4.0 ^Y	<0.0017	0.0027	<0.0017	<0.0017	<0.0017	
11-Aug-09	38	68^Y	<0.0008	0.0010	<0.0008	<0.0008	<0.0008	<0.0008
LFR-3 Split	10-Aug-00	<0.05	<0.05	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	10-Aug-00	<0.05	<0.05	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	1-Nov-00	<0.05	<0.05	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	30-Jan-01	<0.05	<0.05	0.0036	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-01	<0.05	<0.05	0.0024	<0.0005	0.0054	<0.0005	<0.0005
	27-Jul-01	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	18-Oct-01	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.01
	31-Jan-02	<0.05	0.067 ^Y	<0.005 ^b	<0.005 ^b	<0.005 ^b	<0.005 ^b	<0.005 ^b
	16,17-Apr-02	<0.05	<0.05	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Feb-05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	5-Jul-05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9-Dec-05	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jan-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1-Mar-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
22-Aug-07	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
20-Feb-08	<0.05	0.053 ^Y	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
22-Aug-08	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9-Feb-09	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
11-Aug-09	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table 4
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3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
LFR-4	11-Aug-00	0.22 ^Y	0.41 ^Y	0.0051	0.01100	<0.0005	<0.0005	0.00162 ^C
	31-Oct-00	0.17 ^Y	0.27	0.0065	0.00084	<0.0005	<0.0005	<0.0005
	1-Feb-01	0.16 ^Y	0.22	0.0097	0.00330	<0.0005	<0.0005	<0.0005
	27-Apr-01	0.22 ^Y	0.44	0.0058	0.02700	0.0036	<0.0005	<0.0005
	27-Jul-01	0.091 ^Y	0.19	0.011	0.00090	<0.0005	<0.0005	<0.0005
	31-Jan-02	NA	NA	NA	NA	NA	NA	NA
	16,17-Apr-02	0.40 ^Y	0.67	<0.005	0.05300	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	0.21 ^Y	0.36 ^Y	0.0075	0.007	<0.005	<0.005	<0.005
	22,23-Oct-02	0.110 ^Y	0.17	0.0080	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	0.490 ^Y	0.740	<0.005	0.055	<0.005	<0.005	<0.005
	30-Jul-03	0.400 ^Y	0.59	<0.005	0.010	<0.005	<0.005	<0.005
	29-Jan-04	0.42 ^Y	0.700 ^Y	<0.005	0.011	<0.005	<0.005	<0.005
	4-Aug-04	NA	NA	NA	NA	NA	NA	NA
	5-Jul-05	0.510 ^Y	0.68	0.0049	0.024	<0.0005	<0.0005	<0.0005
	5-Jul-06	0.650 ^Y	1.10	0.0081	0.059	<0.0005	0.0081	0.006
	1-Mar-07	0.370 ^Y	0.590 ^H	0.006	0.0063	<0.0005	<0.0005	<0.0005
22-Aug-07	NA	NA	NA	NA	NA	NA	NA	
20-Feb-08	NA	NA	NA	NA	NA	NA	NA	
21-Aug-08	0.990 ^Y	1.50 ^Y	0.0029	0.0009	<0.0005	<0.0005	<0.0005	
10-Feb-09	1.20 ^Y	1.40 ^Y	0.0025	0.0021	<0.0005	<0.0005	<0.0005	
11-Aug-09	0.27 ^Y	0.48 ^Y	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	
Monitoring Wells Installed by SOMA								
SOMA-1	19-Oct-01	0.22	0.44	0.034	<0.0050	<0.0050	<0.0050	<0.0100
	31-Jan-02	0.058	0.100 ^{HY}	0.110 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b
	16,17-Apr-02	<0.05	0.052 ^Y	0.120	0.0008	<0.0005	<0.0005	<0.0005
	17,18-Jul-02	<0.05	<0.05	0.120	<0.005	<0.005	<0.005	<0.005
	22,23-Oct-02	<0.05	0.053	0.140	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	<0.05	<0.05	0.150	<0.0071	<0.0071	<0.0071	<0.0071
	30-Jul-03	<0.05	<0.05	0.190	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	<0.05	<0.05	0.190	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	<0.05	<0.05	0.170	<0.013	<0.013	<0.013	<0.013
	1-Feb-05	<0.05	<0.05	0.200	<0.017	<0.017	<0.017	<0.017
	5-Jul-05	<0.05	<0.05	0.210	<0.0017	<0.0017	<0.0017	<0.0017
	5-Jan-06	<0.05	<0.05	0.270	0.0006	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.05	<0.05	0.310	<0.002	<0.002	<0.002	<0.002
	28-Feb-07	0.050 ^{YZ}	0.081 ^{YZ}	0.330	0.0025	<0.002	<0.002	<0.002
22-Aug-07	<0.05	0.066 ^{YZ}	0.450	<0.002	<0.002	<0.002	<0.002	
20-Feb-08	<0.05	0.076 ^Y	0.340	<0.002	<0.002	<0.002	0.0084	
21-Aug-08	0.055 ^Y	0.084 ^{YZ}	0.390	<0.0025	<0.0025	<0.0025	<0.0025	
10-Feb-09	0.057 ^Y	0.086 ^{YZ}	0.370	<0.0025	<0.0025	<0.0025	<0.0025	
11-Aug-09	<0.05	0.053 ^Y	0.430	<0.0025	<0.0025	<0.0025	<0.0025	
SOMA-2	19-Oct-01	1.4	2.8	<0.250	<0.2500	<0.250	<0.250	<0.500
	31-Jan-02	1.3	2.4 ^{HY}	<0.071 ^b	<0.0710 ^b	<0.071 ^b	<0.071 ^b	<0.071 ^b
	16,17-Apr-02	1.3 ^L	2.2 ^H	<0.130	0.0067	0.046	0.012	0.044
	17,18-Jul-02	2.6	4.4 ^{HY}	<0.063	<0.063	<0.063	<0.063	<0.063
	22,23-Oct-02	0.37	0.600 ^{HY}	0.300	<0.0071	<0.0071	<0.0071	<0.0071
	19-Feb-03	0.30	0.460 ^{HY}	0.210	<0.017	<0.017	<0.017	<0.017
29-Jul-03	0.27	0.400 ^{HY}	0.300	<0.020	<0.020	<0.020	<0.020	

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE
in Groundwater Samples
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
SOMA-2 cont.	28-Jan-04	0.23	0.38 ^{HY}	0.270	<0.017	<0.017	<0.017	<0.017
	4-Aug-04	0.31	0.28 ^{HY}	0.280	<0.031	<0.031	<0.031	<0.031
	2-Feb-05	39	53 ^{HY}	<0.31	<0.31	<0.31	<0.31	<0.31
	6-Jul-05	5.10	6.8 ^{HY}	<0.025	<0.025	0.053	<0.025	0.031
	9-Jan-06	67	93 ^{HY}	<0.042	<0.042	0.054	<0.042	<0.042
	6-Jul-06	25	40 ^{HY}	<0.042	<0.042	0.061	<0.042	<0.042
	1-Mar-07	18	29 ^{HY}	<0.042	<0.042	0.055	<0.042	<0.042
	23-Aug-07	75	130 ^{HY}	<0.042	<0.042	0.081	<0.042	<0.042
	20-Feb-08	3.2	4.0 ^Y	<0.1	<0.1	<0.1	<0.1	<0.1
	25-Mar-08	360.0	270 ^{Yb}	<0.13	<0.13	0.180	<0.13	0.170
21-Aug-08	3.8	5.7 ^Y	<0.0063	0.016	0.120	0.014	0.094	
10-Feb-09	860.0	1,300 ^Y	<0.05	<0.05	<0.05	<0.05	<0.05	
11-Aug-09	FP	FP	FP	FP	FP	FP	FP	
SOMA-3	19-Oct-01	0.42	0.83	0.65	<0.02500	<0.02500	<0.0250	<0.0500
	31-Jan-02	0.23	0.41 ^{HY}	0.31 ^b	<0.01300 ^b	<0.01300 ^b	<0.0130 ^b	<0.0130 ^b
	16,17-Apr-02	0.61	1.00 ^{HY}	0.42	0.00078	0.00068	<0.0005	<0.0005
	17,18-Jul-02	0.41	0.69 ^{HY}	0.38	<0.017	<0.017	<0.017	<0.017
	22,23-Oct-02	3.00	4.700 ^{HY}	<0.17	<0.170	<0.170	<0.170	<0.170
	19-Feb-03	2.50	3.800 ^{HY}	<0.13	<0.130	<0.130	<0.130	<0.130
	29-Jul-03	2.10	3.100 ^{HY}	<0.13	<0.130	<0.130	<0.130	<0.130
	29-Jan-04	4.10	6.8 ^{HY}	<0.31	<0.310	<0.310	<0.310	<0.310
	4-Aug-04	4.00	3.6 ^{HY}	<0.50	<0.500	<0.500	<0.500	<0.500
	2-Feb-05	0.27	0.36 ^{HY}	0.25	<0.063	<0.063	<0.063	<0.063
	6-Jul-05	0.32	0.43 ^{HY}	0.32	0.0017	<0.0005	<0.0005	0.0016
	6-Jan-06	0.22	0.30 ^{HY}	0.39	0.0014	<0.0005	<0.0005	0.0012
	6-Jul-06	0.14	0.27 ^{HY}	0.500	<0.005	<0.005	<0.005	<0.005
	1-Mar-07	0.19	0.31 ^{HY}	0.490	<0.005	<0.005	<0.005	<0.005
	23-Aug-07	0.97	1.700 ^{HY}	0.320	<0.005	<0.005	<0.005	<0.005
20-Feb-08	0.38	0.48 ^Y	<0.031	<0.031	<0.031	<0.031	<0.031	
21-Aug-08	0.40	0.60 ^Y	0.220	<0.013	<0.013	<0.013	<0.013	
10-Feb-09	0.10	0.15 ^Y	0.280	<0.013	<0.013	<0.013	<0.013	
12-Aug-09	0.076 ^Y	0.13 ^Y	0.430	<0.0036	<0.0036	<0.0036	<0.0036	
SOMA-4	19-Oct-01	2.5	5	0.63	<0.13	<0.13	<0.13	<0.26
	31-Jan-02	FP	FP	FP	FP	FP	FP	FP
	16,17-Apr-02	FP	FP	FP	FP	FP	FP	FP
	17,18-Jul-02	FP	FP	FP	FP	FP	FP	FP
	22,23-Oct-02	FP	FP	FP	FP	FP	FP	FP
	18-Feb-03	FP	FP	FP	FP	FP	FP	FP
	29-Jul-03	FP	FP	FP	FP	FP	FP	FP
10-Feb-09	44	65 ^Y	0.018	<0.005	0.016	<0.005	0.029	
SOMA-4R	12-Aug-09	37	65 ^Y	0.08	<0.001	<0.001	<0.001	0.0019
SOMA-5	4-Aug-04	4.1	3.7 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	2-Feb-05	0.11 ^Z	0.15 ^{HYZ}	<0.005	<0.005	<0.005	<0.005	<0.005
	6-Jul-05	2.3 ^H	3.1 ^{HY}	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	9-Jan-06	0.89	1.2 ^{HY}	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	6-Jul-06	0.450 ^{YZ}	0.720 ^{YZ}	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1-Mar-07	NA	3.9 ^{YZ}	0.0052	<0.0005	<0.0005	<0.0005	<0.0005
	23-Aug-07	NA	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA	NA
	21-Aug-08	NA	NA	NA	NA	NA	NA	NA
	10-Feb-09	NA	NA	NA	NA	NA	NA	NA
11-Aug-09	NA	NA	NA	NA	NA	NA	NA	

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE
in Groundwater Samples
Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	TPH-ss (mg/L)	TPH-g (mg/L)	MtBE (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	Total Xylenes (mg/L)
MPE-1	12-Aug-09	28	49 ^Y	0.26	<0.0005	0.0011	<0.0005	0.0029
MPE-2	12-Aug-09	380	200 ^Y	0.015	0.0016	0.0053	0.0013	0.0204
MPE-3	11-Aug-09	FP	FP	FP	FP	FP	FP	FP
MPE-4	12-Aug-09	71	130 ^Y	0.0043	0.0006	<0.0005	<0.0005	0.0036
MPE-5	12-Aug-09	1.1 ^Y	1.9 ^Y	0.0032	<0.001	<0.001	<0.001	<0.001

Notes:

- ^b Analysis was carried out past the hold date, no analytical problems were encountered. See narrative for Q1 2008
- ^c Presence of this compound confirmed by second column, however, the confirmation concentration different from reported results by more than a factor of two.
- ^H Heavier hydrocarbons than the standard are present in the sample.
- ^J Result is estimated.
- ^L Lighter hydrocarbons contributed to the quantitation
- ^{NA} Not analyzed.
 During First and Second Semi-annual 2009 events SOMA-5 had insufficient groundwater for sampling
 During Second Semi-annual 2009 event GW-4 had insufficient groundwater for sampling
- ^Y Sample exhibits fuel pattern which does not resemble standard.
- ^Z Sample exhibits unknown single peak or peaks.

FP: Not Analyzed due to Free Product

TPH, purge = Total petroleum hydrocarbons (purgeable)

Groundwater samples collected from the temporary sampling points are considered grab samples, therefore, the results should be considered estimates of groundwater quality.

MPE-1 through MPE-5 were installed May 2009

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in
Groundwater Samples
at the Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
Temporary Sampling Points Installed by Geosolv, LLC							
B-2	24-Jan-00	<0.0013	<0.0013	0.27	0.001	< 0.0013	< 0.0013
B-3	24-Jan-00	< 0.0020	< 0.002	0.61	< 0.002	< 0.002	< 0.002
B-7	24-Jan-00	< 0.0036	< 0.0036	0.92	0.004	< 0.0036	< 0.0036
	11-Aug-00	< 0.0031	< 0.0031	0.86	0.005	< 0.0031	< 0.0031
	31-Oct-00	< 0.0042	< 0.0042	0.91	0.004	< 0.0042	< 0.0042
	27-Jul-01	0.01	0.017	0.86	0.005	<0.0031	<0.0031
	27-Apr-01	<0.0031	<0.0031	1.10	0.007	<0.0031	<0.0031
31-Jan-01	< 0.0042	< 0.0042	0.92	0.005	< 0.0042	< 0.0042	
B-8	24-Jan-00	< 0.0005	< 0.0005	0.035	< 0.0005	< 0.0005	< 0.0005
B-8R	12-Aug-09	<0.0005	<0.0005	0.027	<0.0005	<0.0005	<0.0005
B-9	24-Jan-00	< 0.0005	0.001	0.003	< 0.0005	< 0.0005	< 0.0005
B-10	24-Jan-00	1.20	2.40	14.00	0.090	< 0.063	< 0.063
	10-Aug-00	2.90	1.60	6.50	0.050	< 0.025	< 0.025
	31-Oct-00	2.40	1.90	7.10	0.061	< 0.025	< 0.025
	27-Jul-01	1.70	1.40	7.30	0.043	<0.025	<0.025
	27-Jul-01	0.87	0.81	6.60	0.041	<0.025	<0.025
	31-Jan-01	2.10	1.60	6.60	0.044	< 0.025	< 0.025
	6-Jul-05	0.59	0.34	12.00	<0.1	<0.1	<0.1
	9-Jan-06	0.14	0.29	13.00	<0.1	<0.1	<0.1
	6-Jul-06	0.37	0.38	14.00	<0.1	<0.1	<0.1
	1-Mar-07	<0.1	<0.1	14.00	0.110	<0.1	<0.1
	23-Aug-07	NA	NA	NA	NA	NA	NA
	20-Feb-08	20.0	9.1	16.0	<0.25	<0.25	<0.25
25-Mar-08	520.0	70.0	28.0	<0.36	<0.36	<0.36	
21-Aug-08	1.1	0.97	17.0	0.096	<0.083	<0.083	
10-Feb-09	1.2	1.2	2.9	<0.02	<0.02	<0.02	
B-10R	12-Aug-09	0.260	0.120	1.8	<0.013	<0.013	<0.013
B-13	24-Jan-00	0.020	0.029	0.13	0.005	< 0.0005	< 0.0005
Temporary Sampling Points Installed by LFR							
GW-2	19-Jul-99	0.014	0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	20-Jan-00	0.130	0.019	0.006	< 0.0005	< 0.0005	< 0.0005
	28-Apr-00	0.120	0.016	0.003	< 0.0005	< 0.0005	< 0.0005
	2-Nov-00	0.008	0.001	0.003	< 0.0005	< 0.0005	< 0.0005
	1-Feb-01	0.008	0.001	0.003	< 0.0005	< 0.0005	< 0.0005
	27-Apr-01	0.010	0.002	0.002	<0.0005	<0.0005	<0.0005
	27-Jul-01	0.033	0.004	0.002	<0.0005	<0.0005	<0.0005
	19-Oct-01	0.019	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	31-Jan-02	0.0092 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0100 ^b	<0.0050 ^b
	16,17-Apr-02	0.014	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17-18-Jul-02	0.014	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	0.027	<0.005	<0.005	<0.005	<0.010	<0.005
	19-Feb-03	0.057	0.007	<0.005	<0.005	<0.010	<0.005
	29-Jul-03	0.043	<0.005	<0.005	<0.005	<0.010	<0.005
	28-Jan-04	0.057	0.0069	<0.005	<0.005	<0.010	<0.005
	4-Aug-04	0.075	0.0100	<0.005	<0.005	<0.010	<0.005
	2-Feb-05	0.049	0.0066	0.016	<0.005	<0.010	<0.005
	6-Jul-05	0.082	0.0110	0.0009	<0.0005	<0.0005	<0.0005
	6-Jan-06	0.061	0.0079	0.0008	<0.0005	<0.0005	<0.0005
	6-Jul-06	0.0750	0.0095	0.0007	<0.0005	<0.0005	<0.0005
	28-Feb-07	0.082	0.0096	0.0006	<0.0005	<0.0005	<0.0005
	22-Aug-07	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA
22-Aug-08	0.015	0.003	<0.0005	<0.0005	<0.0005	<0.0005	
9-Feb-09	0.059	0.0062	<0.0005	<0.0005	<0.0005	<0.0005	
11-Aug-09	0.030	0.0031	<0.0005	<0.0005	<0.0005	<0.0005	

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in
Groundwater Samples
at the Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
GW-3 Split	19-Jul-99	0.220	<0.001	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	20-Jan-00	0.055	0.001	0.020	< 0.0005	< 0.0005	< 0.0005
	27-Apr-00	0.350	0.002	0.006	< 0.0005	< 0.0005	< 0.0005
	27-Apr-00	0.270	0.002	0.002	< 0.0013	< 0.0013	< 0.0013
	11-Aug-00	0.068	0.003	0.012	< 0.0005	< 0.0005	< 0.0005
	2-Nov-00	0.059	0.001	0.002	< 0.0005	< 0.0005	< 0.0005
	1-Feb-01	0.046	0.001	0.001	< 0.0005	< 0.0005	< 0.0005
	27-Apr-01	0.079	0.001	0.002	< 0.0005	< 0.0005	< 0.0005
	27-Jul-01	0.090	0.001	<0.0005	<0.0005	<0.0005	<0.0005
	19-Oct-01	0.180	<0.0100	<0.0100	<0.0100	<0.0200	<0.0100
	31-Jan-02	0.0960 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0100 ^b	<0.0050 ^b
	16,17-Apr-02	0.160	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	0.086	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	0.200	<0.0071	<0.0071	<0.0071	<0.014	<0.0071
	19-Feb-03	0.240	<0.005	0.006	<0.005	<0.010	<0.005
	29-Jul-03	0.430	<0.010	<0.010	<0.010	<0.010	<0.010
	28-Jan-04	0.170	<0.005	<0.005	<0.005	<0.010	<0.005
	3-Aug-04	0.440	<0.017	<0.017	<0.017	<0.033	<0.017
	2-Feb-05	0.360	<0.031	<0.031	<0.031	<0.063	<0.031
	6-Jul-05	0.320	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	6-Jan-06	0.200	0.0008	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jul-06	0.400	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
	1-Mar-07	0.400	0.002	<0.0017	<0.0017	<0.0017	<0.0017
23-Aug-07	0.150	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
20-Feb-08	0.082	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
22-Aug-08	0.240	0.0013	<0.0005	<0.0005	<0.0005	<0.0005	
9-Feb-09	0.330	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
11-Aug-09	0.230	0.0058	0.0013	<0.0005	<0.0005	<0.0005	
GW-4 Split	19-Jul-99	< 0.0005	< 0.0005	0.004	< 0.0005	< 0.0005	0.002
	20-Jan-00	0.001	< 0.0005	0.004	< 0.0005	< 0.0005	0.002
	20-Jan-00	0.001	< 0.0005	0.004	< 0.0005	< 0.0005	0.002
	27-Apr-00	0.002	< 0.0005	0.001	< 0.0005	< 0.0005	0.001
	30-Jan-01	< 0.0005	< 0.0005	0.002	< 0.0005	< 0.0005	0.001
	27-Jul-01	< 0.0005	< 0.0005	0.003	< 0.0005	0.001	0.002
	19-Oct-01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	31-Jan-02	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0100 ^b	<0.0050 ^b
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	19-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	28-Jan-04	0.0081	<0.005	0.010	<0.005	<0.010	<0.005
	3-Aug-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	1-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	6-Jul-05	0.0006	<0.0005	0.0013	<0.0005	<0.0005	0.0011
	5-Jan-06	<0.0005	<0.0005	0.0018	<0.0005	<0.0005	0.0015
	28-Feb-07	0.0006	<0.0005	0.0016	<0.0005	<0.0005	0.0014
	22-Aug-07	NA	NA	NA	NA	NA	NA
20-Feb-08	<0.0005	<0.0005	0.0010	<0.0005	<0.0005	0.0011	
21-Aug-08	NA	NA	NA	NA	NA	NA	
10-Feb-09	<0.0005	<0.0005	0.0013	<0.0005	<0.0005	0.0017	
11-Aug-09	NA	NA	NA	NA	NA	NA	

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in
Groundwater Samples
at the Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
GW-5	27-Aug-99	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	20-Jan-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	27-Apr-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
GW-6A Split	27-Aug-99	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	27-Aug-99	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	25-Jan-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
GW-7 Split	27-Apr-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	15-Jul-99	< 0.0005	< 0.0005	0.004	< 0.0005	< 0.0005	0.001
	15-Jul-99	< 0.0020	< 0.0020	0.004	< 0.0020	< 0.0020	< 0.0020
GW-8 Split	15-Jul-99	< 0.0020	< 0.0020	0.004	< 0.0020	< 0.0020	< 0.0020
	19-Jul-99	0.024	0.015	0.004	0.002	0.001	< 0.0005
	20-Jan-00	0.150	0.190	0.053	0.012	0.005	< 0.0007
Split	20-Jan-00	0.150	0.180	0.052	0.011	0.005	< 0.0005
	28-Apr-00	0.120	0.110	0.029	0.005	0.002	< 0.0005
Monitoring wells owned by TOSCO							
MW-11	25-Jan-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	28-Apr-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	10-Aug-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	1-Nov-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	31-Jan-01	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	27-Apr-01	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	27-Jul-01	0.002	0.001	0.006	< 0.0005	< 0.0005	< 0.0005
	19-Oct-01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	31-Jan-02	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0100 ^b	<0.0050 ^b
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
	17,18-Jul-02	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	18-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	28-Jan-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	3-Aug-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	1-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	5-Jul-05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jan-06	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	19-Feb-08	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
22-Aug-08	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10-Feb-09	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
12-Aug-09	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in
Groundwater Samples
at the Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
Monitoring wells installed by LFR							
LFR-1 Split	9-Aug-00	2.80	0.064	0.041	< 0.0083	< 0.0083	< 0.0083
	30-Oct-00	0.82	0.034	0.010	< 0.0031	< 0.0031	< 0.0031
	30-Oct-00	0.87	0.035	0.014	< 0.0031	< 0.0031	< 0.0031
	29-Jan-01	0.77	0.026	0.007	<0.0025	<0.0025	<0.0025
	26-Apr-01	0.44	0.013	0.005	<0.0013	<0.0013	<0.0013
	27-Jul-01	0.38	0.031	0.010	<0.0013	<0.0013	<0.0013
	18-Oct-01	0.78	0.093	<0.0310	<0.0310	<0.0630	<0.0310
	31-Jan-02	0.37 ^b	0.035 ^b	<0.0130 ^b	<0.0130 ^b	<0.0250 ^b	<0.0130 ^b
	16,17-Apr-02	0.38	0.040	<0.0130	<0.0130	<0.0250	<0.0130
	17,18-Jul-02	0.36	0.041	<0.013	<0.013	<0.025	<0.013
	22,23-Oct-02	0.18	0.024	0.007	<0.005	<0.010	<0.005
	18-Feb-03	0.28	0.032	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	0.15	0.027	0.007	<0.005	<0.010	<0.005
	29-Jan-04	0.15	0.023	0.0077	<0.0063	<0.013	<0.0063
	4-Aug-04	0.058	0.016	0.0052	<0.005	<0.010	<0.005
	2-Feb-05	0.089	0.0079	0.0072	<0.005	<0.010	<0.005
	6-Jul-05	0.096	0.0260	0.0049	<0.0005	<0.0005	<0.0005
	6-Jan-06	0.062	0.0076	0.0010	<0.0005	<0.0005	<0.0005
	6-Jul-06	0.0078	0.0410	0.001	<0.0005	<0.0005	<0.0005
	1-Mar-07	0.098	0.0099	0.0017	<0.0005	<0.0005	<0.0005
23-Aug-07	0.170	0.073	0.036	0.0066	0.0005	<0.0005	
19-Feb-08	0.130	0.051	0.021	0.0048	<0.001	<0.001	
22-Aug-08	0.084	0.047	0.014	0.0039	<0.0005	<0.0005	
9-Feb-09	0.100	0.020	0.0031	<0.001	<0.001	<0.001	
11-Aug-09	0.082	0.039	0.011	0.0028	<0.0005	<0.0005	
LFR-2 split	11-Aug-00	< 0.0005	< 0.0005	0.035	< 0.0005	0.005	< 0.0005
	2-Nov-00	< 0.0005	< 0.0005	0.130	0.001	0.015	0.001
	29-Jan-01	<0.0005	<0.0005	0.006	<0.0005	0.002	<0.0005
	27-Apr-01	0.001	<0.0005	0.006	<0.0005	0.001	<0.0005
	27-Jul-01	0.001	0.001	0.019	<0.0005	<0.0005	<0.0005
	18-Oct-01	<0.0071	<0.0071	0.160	<0.0071	<0.0140	<0.0071
	27-Apr-01	0.001	<0.0005	0.007	<0.0005	0.002	<0.0005
	31-Jan-02	<0.0050 ^b	<0.0050 ^b	0.0069 ^b	<0.0050 ^b	<0.0100 ^b	<0.0050 ^b
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	0.012	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	0.066	<0.005	<0.010	<0.005
	18-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	0.011	<0.005	<0.010	<0.005
	4-Aug-04	<0.005	<0.005	0.012	<0.005	<0.010	<0.005
	1-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	5-Jul-05	<0.0005	<0.0005	0.0012	<0.0005	<0.0005	<0.0005
	5-Jan-06	<0.0005	<0.0005	0.0007	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	28-Feb-07	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	22-Aug-07	<0.0005	<0.0005	0.078	<0.0005	0.0098	<0.0005
20-Feb-08	<0.0005	<0.0005	0.014	<0.0005	0.004	<0.0005	
21-Aug-08	<0.0083	<0.0005	1.40	0.0083	0.089	0.0009	
10-Feb-09	<0.0017	<0.0017	0.33	0.0023	0.032	<0.0017	
11-Aug-09	<0.0008	<0.0008	0.12	<0.0008	0.013	<0.0008	

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in
Groundwater Samples
at the Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
LFR-3 Split	10-Aug-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	10-Aug-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	1-Nov-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	30-Jan-01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	27-Apr-01	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	27-Jul-01	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	18-Oct-01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	31-Jan-02	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0100 ^b	<0.0050 ^b
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	19-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	29-Jan-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	3-Aug-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	2-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	5-Jul-05	0.011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9-Dec-05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	6-Jan-06	0.0031	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	5-Jul-06	0.023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1-Mar-07	0.020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
22-Aug-07	0.0039	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
20-Feb-08	0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
22-Aug-08	0.0013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9-Feb-09	0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
11-Aug-09	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
LFR-4	11-Aug-00	< 0.0005	< 0.0005	0.001	< 0.0005	< 0.0005	< 0.0005
	31-Oct-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	30-Jan-01	<0.0005	<0.0005	0.001	<0.0005	< 0.0005	< 0.0005
	27-Apr-01	<0.0005	<0.0005	0.002	<0.0005	<0.0005	<0.0005
	27-Jul-01	0.001	<0.0005	0.002	<0.0005	<0.0005	<0.0005
	16,17-Apr-02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
	22,23-Oct-02	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	19-Feb-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	29-Jan-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	4-Aug-04	NA	NA	NA	NA	NA	NA
	5-Jul-05	0.0011	<0.0005	0.0026	<0.0005	<0.0005	<0.0005
	5-Jul-06	<0.0005	<0.0005	0.0022	<0.0005	0.0007	<0.0005
	1-Mar-07	<0.0005	<0.0005	0.0033	<0.0005	0.0006	<0.0005
	22-Aug-07	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA
21-Aug-08	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10-Feb-09	<0.0005	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	
11-Aug-09	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in
Groundwater Samples
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3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
Monitoring wells installed by SOMA							
SOMA-1	19-Oct-01	<0.0050	<0.0050	0.014	<0.0050	<0.0100	<0.0050
	31-Jan-02	0.0056 ^b	<0.0050 ^b	0.0070 ^b	<0.0050 ^b	<0.0100 ^b	0.0057 ^b
	16,17-Apr-02	0.006	<0.0050	0.007	<0.0050	<0.0100	<0.0050
	17,18-Jul-02	<0.005	<0.005	0.016	<0.005	<0.01	<0.005
	22,23-Oct-02	0.008	<0.005	0.041	<0.005	<0.010	0.007
	19-Feb-03	0.009	<0.0071	0.016	<0.0071	<0.014	<0.0071
	30-Jul-03	0.016	<0.005	0.042	<0.005	<0.010	0.006
	29-Jan-04	0.019	<0.005	0.044	<0.005	<0.010	0.0059
	3-Aug-04	0.019	<0.013	0.038	<0.013	<0.025	<0.013
	1-Feb-05	0.022	<0.017	0.028	<0.017	<0.033	<0.017
	5-Jul-05	0.041	0.0026	0.051	<0.0017	<0.0017	0.0046
	5-Jan-06	0.019	0.0013	0.028	<0.0005	<0.0005	0.0026
	5-Jul-06	0.037	0.0028	0.057	<0.002	<0.002	0.0037
	28-Feb-07	0.079	0.0062	0.170	<0.002	<0.002	0.0067
	22-Aug-07	0.062	0.0060	0.170	0.0022	<0.002	0.0035
	20-Feb-08	0.075	0.0058	0.180	0.0022	<0.002	0.0025
21-Aug-08	0.110	0.0085	0.250	<0.0025	<0.0025	0.0031	
10-Feb-09	0.085	0.0067	0.290	0.0028	<0.0025	0.0035	
12-Aug-09	0.059	0.0063	0.220	<0.0025	<0.0025	<0.0025	
SOMA-2	19-Oct-01	1.400	0.350	5.000	<0.250	<0.500	<0.250
	31-Jan-02	<0.071 ^b	<0.071 ^b	1.8 ^b	<0.071 ^b	<0.140 ^b	<0.071 ^b
	16,17-Apr-02	<0.130	<0.130	2.900	<0.130	<0.250	<0.130
	17,18-Jul-02	<0.063	<0.063	1.600	<0.063	<0.13	<0.063
	22,23-Oct-02	0.017	0.008	0.350	<0.0071	<0.014	<0.0071
	19-Feb-03	<0.017	<0.017	0.790	<0.017	<0.033	<0.017
	29-Jul-03	0.032	<0.020	0.580	<0.040	<0.040	<0.020
	28-Jan-04	0.036	<0.017	0.430	<0.017	<0.033	<0.017
	4-Aug-04	<0.031	<0.031	0.430	<0.031	<0.063	<0.031
	2-Feb-05	<0.310	<0.310	6.100	<0.310	<0.630	<0.310
	6-Jul-05	0.078	0.047	5.200	0.044	<0.025	<0.025
	9-Jan-06	<0.042	<0.042	7.30	0.049	<0.042	<0.042
	6-Jul-06	<0.042	<0.042	5.400	0.046	<0.042	<0.042
	1-Mar-07	<0.042	<0.042	5.100	<0.042	<0.042	<0.042
	23-Aug-07	<0.042	0.110	5.400	0.042	<0.042	<0.042
	20-Feb-08	0.200	0.360	16.00	0.100	<0.100	<0.100
25-Mar-08	6.400	2.500	20.00	0.130	<0.130	<0.130	
21-Aug-08	0.620	0.870	15.00	0.160	<0.0063	<0.0063	
10-Feb-09	0.170	0.390	5.90	<0.05	<0.05	<0.05	
11-Aug-09	FP	FP	FP	FP	FP	FP	
SOMA-3	19-Oct-01	0.042	0.057	0.440	<0.025	<0.050	<0.025
	31-Jan-02	0.018 ^b	0.023 ^b	0.38 ^b	<0.013 ^b	<0.025 ^b	<0.013 ^b
	16,17-Apr-02	0.025	0.018	0.36	<0.017	<0.033	<0.017
	17,18-Jul-02	0.027	<0.017	0.44	<0.017	<0.033	<0.017
	22,23-Oct-02	<0.170	<0.170	5.90	<0.170	<0.330	<0.170
	19-Feb-03	<0.130	<0.130	4.10	<0.130	<0.250	<0.130
	29-Jul-03	0.150	0.220	4.70	<0.130	<0.250	<0.130
	29-Jan-04	<0.310	<0.310	7.70	<0.310	<0.630	<0.310
	4-Aug-04	<0.500	<0.500	6.90	<0.500	<1.0	<0.500
	2-Feb-05	<0.063	<0.063	1.10	<0.063	<0.130	<0.063
	6-Jul-05	0.031	0.014	0.89	0.0067	0.0011	0.0032
	6-Jan-06	0.025	0.0094	0.77	0.005	0.001	0.0026
	6-Jul-06	0.015	0.0064	0.370	<0.005	<0.005	<0.005
	1-Mar-07	0.015	<0.005	0.270	<0.005	<0.005	<0.005
	23-Aug-07	0.280	0.060	2.900	0.010	<0.005	<0.005
	20-Feb-08	0.041	0.062	5.300	0.068	<0.031	<0.031
21-Aug-08	0.160	0.030	2.100	0.019	<0.013	<0.013	
10-Feb-09	0.024	0.014	1.800	0.013	<0.013	<0.013	
12-Aug-09	0.0078	0.0036	0.170	<0.0036	<0.0036	<0.0036	

Table 5
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3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	PCE (mg/L)	TCE (mg/L)	cis-1,2-DCE (mg/L)	trans-1,2-DCE (mg/L)	Vinyl Chloride (mg/L)	1,2-DCP (mg/L)
SOMA-4	19-Oct-01	<0.13	<0.13	2.600	<0.13	<0.25	<0.13
	31-Jan-02	FP	FP	FP	FP	FP	FP
	16,17-Apr-02	FP	FP	FP	FP	FP	FP
	17,18-Jul-02	FP	FP	FP	FP	FP	FP
	22,23-Oct-02	FP	FP	FP	FP	FP	FP
	18-Feb-03	FP	FP	FP	FP	FP	FP
	29-Jul-03	FP	FP	FP	FP	FP	FP
	10-Feb-09	<0.005	<0.005	0.830	0.0051	<0.005	<0.005
SOMA-4R	12-Aug-09	0.0015	<0.001	0.099	<0.001	<0.001	0.0015
SOMA-5	4-Aug-04	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	2-Feb-05	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	6-Jul-05	<0.0025	<0.0025	0.0057	<0.0025	<0.0025	<0.0025
	9-Jan-06	<0.0025	0.0067	0.430	0.027	<0.0025	<0.0025
	6-Jul-06	<0.0005	<0.0005	0.0035	<0.0005	<0.0005	<0.0005
	1-Mar-07	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	23-Aug-07	NA	NA	NA	NA	NA	NA
	20-Feb-08	NA	NA	NA	NA	NA	NA
	21-Aug-08	NA	NA	NA	NA	NA	NA
	10-Feb-09	NA	NA	NA	NA	NA	NA
	11-Aug-09	NA	NA	NA	NA	NA	NA
MPE-1	12-Aug-09	0.0039	0.012	0.880	0.0053	<0.0005	<0.0005
MPE-2	12-Aug-09	<0.0013	<0.0013	0.150	0.0013	<0.0013	0.0016
MPE-3	11-Aug-09	FP	FP	FP	FP	FP	FP
MPE-4	12-Aug-09	<0.0005	<0.0005	0.083	0.0021	<0.0005	<0.0005
MPE-5	12-Aug-09	<0.001	<0.001	0.140	0.0045	<0.001	<0.001

Notes:

<: Not detected above the laboratory reporting limits.

^b analysis was carried out past hold date, no analytical problems were encountered

FP: Not Analyzed due to Free Product

NA: Not Analyzed.

During First and Second Semi-annual 2009 events SOMA-5 had insufficient groundwater for sampling

During Second Semi-annual 2009 event GW-4 had insufficient groundwater for sampling

MPE-1 through MPE-5 were installed May 2009

Table 6
Historical In-Situ and Ex-Situ Analyses Results for Bioattenuation Parameters
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at the Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	Dissolved Oxygen (mg/L)	Dissolved Manganese (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Methane* (mg/L)	ORP	Hydrogen (nanoMoles)
B-7	11-Aug-00						11.0	193	
	B-7-field	11-Aug-00	0.63		-1.0	3.0			
		31-Oct-00	0.62	2.6	< 0.10	< 1.0	11.00	2.4	-3
	B-7-field	31-Oct-00	0.25		0.4	-1.0	15.85		-63
		1-Feb-01	0.78	2.2	0.8	<1.0	15.00	13.0	
	B-7-field	31-Jan-01	0.48						28
	B-7 Field	26-Apr-01	0.60	1.7	2.5	5.0	>3.3	7.6	-28
B-7 Field	26-Jul-01	1.98	7.3	0.0	8.0	11.60	7.0	-40	
B-8 field	31-Jan-01	0.45						58	
B-8R	12-Aug-09	0.17	15.3	0.0	0.0	0.00	5.4	-41.4	
B-10	10-Aug-00			< 0.05	< 0.05	5.70	10.0	213	
	B-10-field	10-Aug-00	0.44		-1.0	-2.0			
		31-Oct-00	2.40	1.4	< 0.10	< 1.0	5.90	6.7	0.81
	B-10-field	31-Oct-00	0.44		0.0	0.0	7.60		-22
		31-Jan-01	6.40	1.3	< 0.10	<2.0	7.70	24.0	1.3
	B-10-field	31-Jan-01	0.46						64
	B-10 Field	11-Jun-01	0.90	0.0	0	0	1.25	3.9	-8
	B-10 Field	26-Jun-01	1.87	1.3	0	3	6.20	5.6	-22
		6-Jul-05	9.53	41.1	35	80	3.30	2.2	12
		9-Jan-06	3.39	13.6	0	0	3.30	10.0	10
		6-Jul-06	10.62	0.0	0	0	3.30	11	-104
		1-Mar-07	10.53	1.8	0	0	3.30	0.25	-76.3
		23-Aug-07	NM	NM	NM	NM	NM	NM	NM
		20-Feb-08	NM	0.70	7.20	11.00	3.30	6.30	NM
		25-Mar-08	NM	NM	NM	NM	NM	7.40	NM
	21-Aug-08	0.25	12.40	12.10	16.00	3.30	2.90	-60.20	
	10-Feb-09	0.18	10.50	5.70	80.00	2.68	2.00	-65.70	
B-10R	12-Aug-09	0.19	47.00	12.30	80.00	3.12	1.00	-102.80	
GW-2-field	1-Nov-00	2.32						77	
	GW-2	1-Feb-01	3.80				0.0410		
	GW-2-field	1-Feb-01	0.58					159	
		26-Apr-01	4.00	1.0	7.1	36	0.02	0.0002	152
		26-Jul-01	1.93	0.0	3.9	60	0.00	0.0160	233
	GW-2 field	Not En. Sample						0.0009	
		31-Jan-02	2.80	0.0	0.8	45	0.36	0.0069	179
		16,17-Apr-02	1.76	0.0	4.7	70	0.09	0.0003	198
	17,18-Jul-02	1.39	0.6	0.0	69	0.00	0.0021	161	
	22,23-Oct-02	3.86	0.6	11.5	40	0.07	0.0007	166	

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GW-2	19-Feb-03	7.24	0.1	10.3	49	0.03	0.0012	169		
	29-Jul-03	4.21	0.2	0.0	44	0.00	0.0007	47		
	28-Jan-04	6.02	0.0	3.3	56	0.00	0.00046	143		
	4-Aug-04	8.27	0.0	0.0	27	0.00	0.00035	115		
	2-Feb-05	8.41	0.0	0.0	40	0.00	<0.0050	76		
	6-Jul-05	10.90	0.0	5.3	51	0.00	<0.005	90		
	6-Jan-06	8.11	2.4	0.0	44	0.00	<0.005	86		
	6-Jul-06	9.71	0.3	0.0	53	0.00	<0.005	86		
	28-Feb-07	6.51	1.5	14.4	48	0.12	<0.005	33.5		
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM	
	20-Feb-08	NM	NM	NM	NM	NM	NM	NM	NM	
22-Aug-08	0.12	0.00	0.00	29.00	0.00	<0.005	114.80			
9-Feb-09	0.14	1.30	3.40	66.00	0.11	<0.005	10.40			
11-Aug-09	1.03	1.10	6.80	69.00	0.00	<0.005	30.20			
GW-3	11-Aug-00						< 0.0005	395		
GW-3-field	11-Aug-00	0.72		1.0	46					
GW-3-field	1-Nov-00	7.76						81		
GW-3-field	29-Jan-01	8.80					0.0120			
	1-Feb-01	8.99						235	NM	
GW-3-field	27-Apr-01	2.90	0.0	0.7	30	0.00	0.0150	212	NM	
	26-Jul-01	2.48	0.0	2.4	52	0.12	0.0083	214		
GW-3 field	18-Oct-01	3.76	0.0	5.2	4.9	0.00	0.0041	131	NM	
	31-Jan-02	3.70	0.2	1.3	52	0.00	0.0081	163		
GW-3 field	16,17-Apr-02	7.55	0.0	4.2	59	0.00	0.0006	133		
	17,18-Jul-02	3.50	0.0	0.0	47	0.22	0.0100	155		
GW-3 field	22,23-Oct-02	2.19	0.0	1.6	33	0.00	0.0007	178		
	19-Feb-03	5.28	0.4	4.0	43	0.02	0.0007	123		
GW-3 field	29-Jul-03	6.12	0.0	0.0	31	0.00	0.0005	96		
	28-Jan-04	4.21	0.0	0.8	61	0.00	0.00042	141		
GW-3 field	3-Aug-04	10.20	0.0	0.0	41	0.00	0.00028	84		
	2-Feb-05	3.97	0.5	0.0	12	0.00	<0.0050	84		
GW-3 field	6-Jul-05	7.96	2.9	0.5	52	0.00	<0.005	67		
	6-Jan-06	5.22	0.0	0.0	4	0.00	<0.005	61		
GW-3 field	6-Jul-06	5.69	3.1	0.0	31	0.00	<0.005	63		
	1-Mar-07	7.27	0.6	4.3	15	0.00	<0.005	50.4		
GW-3 field	23-Aug-07	4.79	1.9	7.8	33	0.17	<0.005	178.3		
	20-Feb-08	0.22	0.0	35.0	0	0.00	<0.0065	71.1		
GW-3 field	22-Aug-08	0.12	0.3	0.0	4	0.00	<0.005	135.5		
	9-Feb-09	0.13	1.4	2.8	36	0.02	<0.005	-6.1		
11-Aug-09	0.50	0.0	1.3	34	0.02	<0.005	17.5			
GW-4-field	30-Jan-01	0.83						67		
GW-4-field	26-Jul-01	2.59	0.2	10.5	25	1.29	0.0028	-3		
GW-4-field	18-Oct-01	1.00	0.1	0.0	0	4.80	4.80	-84	NM	
GW-4	31-Jan-02	0.90	0.8	0.0	0	8.00	3.50	-91		
	16,17-Apr-02	0.41	0.1	5.2	0	5.70	4.70	-2		
GW-4	17,18-Jul-02	2.38	3.0	0.0	0	>3.3	4.60	-68		
	22,23-Oct-02	NM	NM	NM	NM	NM	0.30	NM		
GW-4	19-Feb-03	7.76	0.4	5.4	0	3.30	2.30	-57		
	30-Jul-03	5.38	6.1	0.0	0	3.30	1.30	-141		

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GW-4	28-Jan-04	2.17	5.9	0.0	0	3.30	0.22	-73	
	3-Aug-04	10.35	0.9	0.0	0	3.30	3.20	-113	
	1-Feb-05	2.97	0.8	0.0	0	1.53	1.20	93	
	6-Jul-05	9.17	1.9	9.8	20	1.07	0.84	128	
	5-Jan-06	7.62	3.4	0.0	0	3.30	3.40	110	
	28-Feb-07	5.26	1.1	0.0	0	3.30	3.90	-119.5	
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	
	20-Feb-08	0.23	0.60	0.00	0.00	3.30	2.50	-108.70	
	21-Aug-08	NM	NM	NM	NM	NM	NM	NM	
	10-Feb-09	0.13	8.00	2.30	8.00	3.30	2.40	-19.40	
11-Aug-09	NM	NM	NM	NM	NM	NM	NM	NM	
MW-11	10-Aug-00			2.8	63	< 0.1	< 0.0005	476	
MW-11-field	10-Aug-00	2.52		4.1	67				
	1-Nov-00	4.10	< 0.010	15.0	90	< 0.1	0.0000		130
MW-11-field	1-Nov-00	4.01		3.3	73	0.00		87	
MW-11-field	1-Nov-00	3.97		27.3	74	0.00		319	
	31-Jan-01	6.30	< 0.010	15.0	94	< 1.0	0.0001		1.1
MW-11 Field	26-Apr-01	7.40	0.0	6.8	52	0.00	0.0014	229	NM
MW-11 Field	26-Jul-01	1.85	0.0	5.2	77	0.00	0.0049	233	
MW-11 Field	18-Oct-01	5.58	0.0	10.1	NM	0.00	0.0066	155	NM
	31-Jan-02	4.90	0.0	2.8	79	0.00	0.0077	218	
	16,17-Apr-02	3.18	0.0	2.8	88	0.00	0.0092	242	
	17,18-Jul-02	2.82	0.0	4.1	79	0.00	0.0088	357	
	22,23-Oct-02	4.47	0.0	3.7	69	0.00	0.0025	118	
	18-Feb-03	5.65	0.6	2.3	73	0.00	0.0022	304	
	30-Jul-03	3.80	0.1	0.0	54	0.00	0.0010	224	
	28-Jan-04	7.32	0.0	0.0	80	0.00	0.0200	130	
	3-Aug-04	10.40	0.0	0.0	77	0.00	0.0028	185	
	1-Feb-05	6.99	1.7	0.0	52	0.00	<0.0050	91	
	5-Jul-05	10.38	1.2	0.0	80	0.00	<0.005	125	
	5-Jan-06	6.21	0.0	0.0	65	0.00	<0.005	166	
	5-Jul-06	8.35	5.9	0.0	80	0.00	<0.005	35	
	28-Feb-07	6.68	0.4	0.0	41	0.63	<0.005	12.9	
	22-Aug-07	3.07	3.5	0.0	54	0.00	<0.005	237	
	19-Feb-08	0.23	0.8	0.0	27	0.00	<0.0065	48	
	22-Aug-08	0.10	1.9	0.0	35	0.00	<0.005	67.60	
	10-Feb-09	0.25	0.6	0.0	50	0.02	<0.005	34.40	
	12-Aug-09	1.39	0.6	1.6	52	0.06	<0.005	2.30	
LFR-1	9-Aug-00							462	
LFR-1-field	11-Aug-00						0.0096		
	9-Aug-00	3.63		5.5	30				1.5
	30-Oct-00	2.70	0.0	39.0	42	< 1.0	0.0004		
LFR-1-field/split	30-Oct-00	2.95		10.3/10.0	29/29	0.01/0.01		77	1
LFR-1 split	30-Oct-00	3.40	0.0	40.0	43.0	< 1.0	0.0007		
	29-Jan-01	5.10	<0.01	<0.10	51	<1.0	0.0001		0.43
LFR-1-field	29-Jan-01	3.78	0.0		36	0.00		383	
LFR-1 Dup	29-Jan-01	4.60	<0.01	<0.10	50	<1.0	0.0000		0.32
	26-Apr-01	3.20	0.0	12.9	16	0.00	0.0003	224	NM
	26-Jul-01	1.07	0.0	8.0	25	0.01	0.0084	238	

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LFR-1 field	18-Oct-01	1.03	0.0	6.9	24	0.18	0.0054	119	NM
LFR-1	31-Jan-02	1.80	0.3	5.5	31	0.00	0.0062	163	
	16,17-Apr-02	1.68	0.3	1.5	38	0.39	0.0030	240	
	17,18-Jul-02	0.00	0.0	6.1	3	0.07	0.0047	209	
	22,23-Oct-02	0.00	0.4	0.0	23	0.15	0.0008	265	
	18-Feb-03	7.76	0.0	4.3	30	0.00	0.0008	260	
	30-Jul-03	0.58	0.3	0.0	10	0.00	0.0004	190	
	29-Jan-04	3.12	0.5	0.0	57	0.00	0.0011	19	
	4-Aug-04	6.26	5.8	0.0	17	0.00	0.0010	62	
	2-Feb-05	5.24	0.0	0.0	1	0.00	0.0120	93	
	6-Jul-05	8.53	0.2	2.5	40	0.00	<0.005	110	
	6-Jan-06	5.43	3.9	0.0	5	0.00	0.025	161	
	6-Jul-06	9.93	0.4	0.0	6	0.00	<0.005	99	
	1-Mar-07	5.00	5.2	4.5	42	0.04	<0.005	62.9	
	23-Aug-07	0.88	2.7	4.7	23	0.15	<0.005	215	
	19-Feb-08	0.20	0.0	0.0	11	0.00	<0.0065	43.9	
	22-Aug-08	0.14	6.7	0.0	0	0.00	0.0059	119.2	
	9-Feb-09	0.14	4.9	0.0	23	0.00	<0.005	12.2	
11-Aug-09	0.14	5.6	2.4	23	0.00	<0.005	15.3		
LFR-2	11-Aug-00						6.60	270	
LFR-2-field	11-Aug-00	0.48		1.5	-1.0	2.70			1200
	2-Nov-00	2.20	8.8	0.3	5.4	5.30	8.50		
LFR-2-field	2-Nov-00	0.47		0.5	-1.0	6.05		-24	
	30-Jan-01	4.40	8.9	1.0	8.3	4.60	4.60		1.1
LFR-2-field	30-Jan-01	0.61	10.7	2.9		1.02		210	
	27-Apr-01	1.40	0.4	1.6	1.0	2.66	14.00	9	NM
	26-Jul-01	0.55	0.2	0.0	0.0	4.50	10.00	-20	
LFR-2 field	18-Oct-01	0.43	0.0	0.0	0.0	6.50	11.00	-75	NM
	31-Jan-02	1.00	0.0	2.6	19.0	1.81	11.00	-14	
	16,17-Apr-02	0.00	0.0	1.7	0.0	7.20	16.00	-6	
	17,18-Jul-02	0.00	13.9	0.0	0.0	7.20	9.60	-64	
	22,23-Oct-02	0.00	10.7	0.5	0.0	3.30	4.70	-82	
	18-Feb-03	0.42	9.0	0.0	0.0	3.30	9.60	-53	
	30-Jul-03	0.00	3.0	0.0	0.0	3.30	8.70	-85	
	4-Aug-04	4.78	1.6	0.0	0.0	3.30	6.20	-93	
	1-Feb-05	1.77	12.1	0.0	0.0	1.79	11.00	69	
	5-Jul-05	4.21	18.2	0.0	0.0	3.30	11.00	-60	
	5-Jan-06	3.53	3.8	0.0	3.0	3.30	14.00	-29	
	5-Jul-06	7.70	4.3	0.0	0.0	3.30	10.00	-136	
	28-Feb-07	3.03	4.2	0.0	0.0	3.30	11.00	-89.9	
	22-Aug-07	0.11	22.7	0.0	0.0	3.30	6.60	-24.0	
	20-Feb-08	0.20	0.0	0.0	0.0	0.76	4.70	-69.5	
	21-Aug-08	0.13	21.4	0.0	0.0	3.30	5.80	-66.1	
	10-Feb-09	0.16	24.0	0.2	0.0	3.30	3.70	-62.2	
	11-Aug-09	0.16	35.5	3.6	7.0	2.88	3.10	-138.1	

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LFR-3	10-Aug-00			2.4	64	< 0.1	0.0005	464	
LFR-3 split	10-Aug-00							< 0.0005	
LFR-3-field	10-Aug-00	1.30		2.4	64				850
	1-Nov-00	4.70	0.0	8.8	74	< 1.0	0.0003		
LFR-3-field	1-Nov-00	0.58		1.8	57	0.00		75	
	31-Jan-01	4.10	<0.01	1.2	58	< 1.0	0.0004		
LFR-3-field	30-Jan-01	1.75		0.0	44	0.00		195	
LFR-3 Field	11-Jun-01	1.00	0.0	0.8	28	0.00	0.0086	201	NM
LFR-3 Field	26-Jul-01	1.29	0.4	0.0	51	0.60	0.0035	228	
LFR-3 Field	18-Oct-01	0.54	0.0	0.8	30	0.11	0.0093	139	NM
	31-Jan-02	0.80	0.4	2.6	32	0.00	0.0072	212	
	16,17-Apr-02	0.19	0.4	0.0	55	0.79	0.0096	228	
	17,18-Jul-02	0.00	0.2	1.7	42	0.00	0.0068	166	
	22,23-Oct-02	0.11	0.5	0.0	36	0.00	0.0035	186	
	19-Feb-03	1.10	0.5	0.0	19	0.54	0.0069	217	
	30-Jul-03	0.17	0.1	0.0	21	0.00	0.0069	167	
	29-Jan-04	1.39	0.0	0.0	0	3.30	0.0011	64	
	3-Aug-04	5.14	3.9	0.0	8	0.00	0.0054	175	
	2-Feb-05	2.74	0.0	0.0	0	0.00	<0.005	94	
	5-Jul-05	7.59	0.5	35.0	80	3.29	<0.005	85	
	6-Jan-06	3.52	1.8	0.0	23	0.67	<0.005	151	
	5-Jul-06	5.47	1.1	0.0	40	0.00	<0.005	56	
	1-Mar-07	3.78	1.6	5.3	12	0.72	<0.005	42.7	
	22-Aug-07	1.70	4.0	0.0	9	0.44	<0.005	192	
	20-Feb-08	0.22	6.2	0.0	0	0.00	<0.0065	58.9	
	22-Aug-08	0.14	1.5	0.0	0	0.00	<0.005	140.4	
	9-Feb-09	0.13	0.0	2.3	44	0.00	<0.005	-41.0	
	11-Aug-09	0.12	4.6	0.0	32	0.00	<0.005	-27.6	
LFR-4	11-Aug-00						0.06	402	
LFR-4-field	11-Aug-00	1.13		0.7	1	0.14			1.1
	31-Oct-00	1.90	2.2	< 0.10	2.9	1.10	3.20		
LFR-4-field	31-Oct-00	0.64		1.0		0.61		-80	
	1-Feb-01	3.20	2.8	1.5	2.8	1.80	2.20		1.5
LFR-4-field	1-Feb-01	0.55	4.5	8.0	0.0	1.50		59	
LFR-4 Field	27-Apr-01	5.60	0.0	1.7	0.0	1.37	7.00	14	NM
LFR-4 Field	26-Jul-01	1.65	0.0	0.0	0.0	0.84	1.20	18	
	16,17-Apr-02	0.00	1.0	2.6	6.0	4.80	12.00	-4	
	17,18-Jul-02	0.79	6.8	0.0	0.0	>3.3	2.80	3	
	22,23-Oct-02	0.00	4.0	0.0	0.0	2.55	1.30	-63	
	19-Feb-03	0.50	6.8	0.0	18	3.30	4.40	-41	
	30-Jul-03	0.28	5.1	0.0	0.0	3.30	3.90	-49	
	29-Jan-04	1.64	5.0	0.0	0.0	0.52	4.00	1	
	4-Aug-04	NM	NM	NM	NM	NM	NM	NM	
	5-Jul-05	5.22	2.8	0.0	0.0	3.30	5.40	61	
	5-Jul-06	9.70	5.9	0.0	0.0	3.30	9.20	-98	
	1-Mar-07	3.97	1.7	0.0	0.0	3.30	3.00	-50	
	22-Aug-07	NM	NM	NM	NM	NM	NM	NM	
	19-Feb-08	NM	NM	NM	NM	NM	NM	NM	
	21-Aug-08	0.14	4.40	0.00	0.00	3.20	6.20	-0.70	
	10-Feb-09	0.18	28.10	0.00	0.00	2.18	4.40	-30.60	
	11-Aug-09	0.44	10.10	0.00	0.00	2.65	1.80	-29.70	

Table 6
Historical In-Situ and Ex-Situ Analyses Results for Bioattenuation Parameters
in Groundwater Samples
at the Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	Dissolved Oxygen (mg/L)	Dissolved Manganese (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Methane* (mg/L)	ORP	Hydrogen (nanoMoles)
SOMA-1	18-Oct-01	4.19	0.3	0.2	33	0.52	0.12	151	NM
	31-Jan-02	0.40	0.0	0.0	18	0.00	0.58	141	NM
	16,17-Apr-02	0.00	0.0	0.6	31	0.10	0.82	213	
	17,18-Jul-02	0.00	0.0	1.8	28	0.05	0.44	149	
	22,23-Oct-02	0.00	0.7	0.0	4	0.00	0.68	131	
	18-Feb-03	5.12	0.4	0.0	1	0.00	0.41	258	
	30-Jul-03	0.00	0.4	0.0	1	0.00	0.99	74	
	29-Jan-04	0.29	0.5	0.0	13	0.47	0.85	133	
	3-Aug-04	4.44	0.0	0.0	25	0.00	0.50	152	
	1-Feb-05	1.57	0.1	0.0	0.0	0.00	0.83	137	
	5-Jul-05	7.58	0.5	0.0	16	0.21	1.50	72	
	5-Jan-06	5.82	0.0	0.0	6	0.00	0.60	156	
	5-Jul-06	6.79	1.8	0.0	13	0.00	1.10	66	
	28-Feb-07	2.13	10.1	0.0	12	0.00	2.50	37.3	
	22-Aug-07	0.14	3.3	0.0	9	0.39	0.79	177.0	
	20-Feb-08	0.22	0.2	0.0	0	0.00	0.65	57.1	
	21-Aug-08	0.12	0.1	0.0	0	0.00	0.67	202.7	
10-Feb-09	0.15	8.0	0.6	22	0.20	1.20	22.7		
11-Aug-09	0.20	23.0	0.0	10	0.06	0.86	-20.8		
SOMA-2	18-Oct-01	0.57	0.0	0.4	0.0	40.00	6.60	-89	NM
	31-Jan-02	0.70	3.8	0.8	0.0	9.00	13.00	103	NM
	16,17-Apr-02	0.00	0.5	0.1	0.0	7.40	14.00	-69	
	17,18-Jul-02	0.00	5.7	0.0	0.0	>3.3	9.40	-87	
	22,23-Oct-02	0.35	1.7	2.8	15	3.30	2.20	-98	
	19-Feb-03	3.17	1.9	1.7	0.0	2.89	2.40	-72	
	30-Jul-03	2.71	1.0	0.0	0.0	0.83	1.00	-53	
	28-Jan-04	4.52	0.2	0.0	0.0	1.46	1.70	-8	
	4-Aug-04	7.06	0.4	0.0	0.0	0.31	1.40	-33	
	2-Feb-05	1.17	8.4	0.0	0.0	3.30	13.00	-95	
	6-Jul-05	5.67	1.1	0.0	0.0	3.30	11.00	-66	
	9-Jan-06	3.01	15.7	5.6	0.0	3.30	15.00	-60	
	6-Jul-06	8.92	7.4	0.0	0.0	3.30	14.00	-85	
	1-Mar-07	6.42	8.7	0.0	0.0	3.30	12.00	-137	
	23-Aug-07	0.43	0.0	0.0	0.0	2.87	8.60	-31.6	
	20-Feb-08	0.25	2.9	0.0	0.0	3.30	11.00	-79.6	
	25-Mar-08	NM	NM	NM	NM	NM	9.10	NM	
21-Aug-08	0.26	3.10	0.00	0.00	3.30	7.50	-65.40		
10-Feb-09	0.18	30.30	0.00	80.00	3.30	2.50	-100.60		
11-Aug-09	NM	NM	NM	NM	NM	NM	NM	NM	
SOMA-3	18-Oct-01	1.32	0.0	0.0	33	0.22	1.00	2	NM
	31-Jan-02	1.00	22.0	2.0	54	0.62	0.46	-71	NM
	16,17-Apr-02	2.60	0.0	0.6	42	0.77	0.41	29	
	17,18-Jul-02	0.97	10.9	0.0	23	>3.3	0.94	-51	
	22,23-Oct-02	0.30	2.7	0.1	7	3.26	4.20	-98	
	19-Feb-03	0.18	0.0	0.0	0.0	3.30	9.00	-88	
	30-Jul-03	0.00	2.0	0.0	0.0	3.30	8.70	-106	
	29-Jan-04	2.30	3.5	0.0	0.0	3.30	8.40	-85	
	4-Aug-04	5.35	0.0	0.0	0.0	3.30	6.50	-105	
	2-Feb-05	3.66	0.3	0.0	0.0	0.00	2.70	-73	
	6-Jul-05	9.65	0.7	0.0	0.0	0.77	2.50	84	
	6-Jan-06	2.20	2.9	0.0	0.0	0.40	3.10	86	
	6-Jul-06	10.52	0.5	0.0	0.0	0.37	1.40	-58	
	1-Mar-07	5.03	0.5	0.0	0.0	0.80	1.40	-51.9	
	23-Aug-07	9.68	0.0	0.0	35.0	0.28	2.70	11.8	
	20-Feb-08	0.25	34.2	12.1	49.0	3.30	6.50	59.3	
	21-Aug-08	0.30	0.0	0.0	0.0	0.00	1.60	27.3	
10-Feb-09	0.20	0.8	0.0	25.0	0.80	0.83	34.2		
12-Aug-09	2.28	2.6	0.9	19.0	0.71	0.20	4.3		

Table 6
Historical In-Situ and Ex-Situ Analyses Results for Bioattenuation Parameters
in Groundwater Samples
at the Former Glovatorium Site
3820 Manila Avenue, Oakland, California

Well Name	Date Sampled	Dissolved Oxygen (mg/L)	Dissolved Manganese (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Methane* (mg/L)	ORP	Hydrogen (nanoMoles)
SOMA-4	18-Oct-01	0.83	4.0	22.0	17	0.22	1.20	88	NM
	10-Feb-09	0.17	7.1	0.4	80.0	2.83	2.20	-104.9	
SOMA-4R	12-Aug-09	0.23	7.4	2.1	2.0	2.47	1.00	-138.1	
SOMA-5	4-Aug-04	5.65	0.0	0.0	0.0	0.23	1.70	-143	
	2-Feb-05	2.40	1.5	0.0	0.0	3.30	3.00	-81	
	6-Jul-05	8.91	20.9	0.0	0.0	3.30	20.00	-113	
	9-Jan-06	3.24	15.2	0.0	0.0	3.30	10.00	-141	
	6-Jul-06	10.54	0.0	0.0	0.0	0.82	6.90	-129	
	1-Mar-07	NM	NM	NM	NM	NM	NM	NM	NM
	23-Aug-07	NM	NM	NM	NM	NM	NM	NM	NM
	20-Feb-08	NM	NM	NM	NM	NM	NM	NM	NM
	21-Aug-08	NM	NM	NM	NM	NM	NM	NM	NM
	10-Feb-09	0.18	63.4	0.0	0.0	1.64	NM	-119.4	
	12-Aug-09	NM	NM	NM	NM	NM	NM	NM	
MPE-1	12-Aug-09	0.64	NM	NM	NM	NM	0.09	0.2	
MPE-2	12-Aug-09	0.11	NM	NM	NM	NM	1.70	-41.5	
MPE-3	11-Aug-09	NM	NM	NM	NM	NM	NM	NM	
MPE-4	12-Aug-09	0.19	9.1	0.0	20.0	1.21	1.70	-66.9	
MPE-5	12-Aug-09	0.19	26.7	0.0	0.0	0.00	2.80	-117.0	

Notes:

Samples with "field" in the well number indicate that the results are from field measurements obtained using a Hach spectrophotometer or a Hydrolab Quanta flow-through instrument.

since April 2001, field measurements have been obtained by a Hach Calorimeter

* Methane was measured by Laboratory.

Since the First Quarter 2005, Curtis & Tompkins has analyzed for methane.

NM: Not Measured.

During First and Second Semi-annual 2009 events SOMA-5 had insufficient groundwater for sampling

During Second Semi-annual 2009 event GW-4 had insufficient groundwater for sampling

MPE-1 through MPE-5 were installed May 2009

Table 7
Free Product Removal Log
Former Glovatorium Site
3820 Manila Avenue, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
SOMA-4			
2002			
31-Jan-2002	11.30	8.80	2.50
10-Apr-2002	12.45	9.58	2.87
29-Apr-2002	13.00	9.80	3.20
10-Sep-2002	16.75	10.26	6.49
19-Sep-2002	16.32	10.64	5.68
27-Sep-2002	16.59	10.65	5.94
3-Oct-2002	16.95	11.65	5.30
7-Oct-2002	17.40	11.01	6.39
8-Oct-2002	17.11	10.75	6.36
14-Oct-2002	17.51	10.53	6.98
25-Oct-2002	16.90	10.96	5.94
1-Nov-2002	15.59	11.70	3.89
14-Nov-2002	16.24	11.20	5.04
20-Nov-2002	13.44	11.90	1.54
15-Dec-2002	12.73	12.10	0.63
2003			
18-Jul-2003	17.70	7.20	10.50
2004			
28-Jan-2004	12.00	2.90	9.10
2005			
29-Jun-2005	10.40	10.10	0.30
18-Jul-2005	10.35	9.90	0.45
25-Jul-2005	10.75	10.00	0.75
1-Aug-2005	10.87	9.25	1.62
24-Aug-2005	13.47	9.95	3.52
31-Aug-2005	11.15	10.01	1.14
6-Sep-2005	12.98	10.78	2.20
12-Sep-2005	11.15	9.10	2.05
19-Sep-2005	12.90	10.80	2.10
5-Oct-2005	12.80	10.85	1.95
2006			
4-Jan-2006	12.50	8.60	3.90
12-Jan-2006	13.10	10.30	2.80
18-Jan-2006	13.64	10.50	3.14
24-Jan-2006	9.20	9.19	0.01
24-Jan-2006	began extracting free product using GeoTech pump		
26-Jan-2006	9.67	9.66	0.01
13-Feb-2006	10.24	10.23	0.01
27-Feb-2006	9.72	9.70	0.02
10-Mar-2006	8.90	8.70	0.20
20-Mar-2006	7.80	7.70	0.10
30-Mar-2006	8.30	8.20	0.10

Table 7
Free Product Removal Log
Former Glovatorium Site
3820 Manila Avenue, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
SOMA-4			
2006			
6-Apr-2006	7.01	6.65	0.36
18-Apr-2006	moved GeoTech pump from SOMA-4 to B-8		
1-May-2006	7.60	7.56	0.04
10-May-2006	8.64	8.63	0.01
22-May-2006	8.53	8.40	0.13
1-Jun-2006	8.64	8.61	0.03
7-Jun-2006	8.86	8.82	0.04
19-Jun-2006	9.39	9.38	0.01
27-Jun-2006	10.54	10.46	0.08
2006			
13-Jul-2006	10.75	10.15	0.60
24-Jul-2006	11.05	10.16	0.89
3-Aug-2006	12.02	10.32	1.70
14-Aug-2006	13.08	9.88	3.20
14-Aug-2006	began extracting free product using GeoTech pump		
25-Aug-2006	13.95	10.70	3.25
28-Aug-2006	11.50	10.73	0.77
9-Sep-2006	14.23	10.75	3.48
13-Sep-2006	12.95	10.70	2.25
27-Sep-2006	15.78	11.00	4.78
2006			
4-Oct-2006	14.61	11.26	3.35
11-Oct-2006	14.25	10.75	3.50
1-Nov-2006	17.23	10.92	6.31
22-Nov-2006	14.98	10.53	4.45
30-Nov-2006	15.16	10.29	4.87
8-Dec-2006	13.54	11.30	2.24
11-Dec-2006	12.24	10.66	1.58
2007			
8-Jan-2007	11.15	10.78	0.37
12-Jan-2007	10.79	10.38	0.41
16-Jan-2007	11.00	11.00	0.00
24-Jan-2007	11.10	10.83	0.27
31-Jan-2007	11.02	10.44	0.58
8-Feb-2007	11.50	10.64	0.86
14-Feb-2007	9.60	9.25	0.35
22-Feb-2007	9.94	9.81	0.13
9-Mar-2007	9.73	9.53	0.20
16-Mar-2007	10.02	10.01	0.01
22-Mar-2007	9.93	9.91	0.02
26-Mar-2007	10.67	10.67	0.00
26-Mar-2007	Moved GeoTech pump from SOMA-4 to B-8		

Table 7
Free Product Removal Log
Former Glovatorium Site
3820 Manila Avenue, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
SOMA-4			
2007			
4-Apr-2007	10.56	10.39	0.17
9-Apr-2007	10.71	10.60	0.11
17-May-2007	16.05	15.32	0.73
21-May-2007	16.06	15.30	0.76
31-May-2007	16.31	15.31	1.00
8-Jun-2007	16.73	16.09	0.64
11-Jun-2007	16.85	16.02	0.83
20-Jun-2007	16.44	15.62	0.82
29-Jun-2007	16.63	15.90	0.73
2-Jul-2007	16.73	16.15	0.58
12-Jul-2007	17.30	16.64	0.66
12-Jul-2007	Installed new GeoTech pump system in SOMA-4 and began extraction of free product from both wells.		
20-Jul-2007	16.94	-	0.00
25-Jul-2007	16.61	16.58	0.03
7-Aug-2007	18.52	18.49	0.03
7-Aug-2007	FP recovery pump in SOMA-4 well not operating due to unknown internal fault; removed and returned to supplier for repair.		
16-Aug-2007	17.65	-	0.00
22-Aug-2007	18.04	-	0.00
30-Aug-2007	18.21	-	0.00
7-Sep-2007	17.96	-	0.00
14-Sep-2007	18.05	-	0.00
21-Sep-2007	17.90	-	-
29-Nov-2007	17.54	-	-
21-Dec-2007	17.04	-	-
2008			
4-Jan-2008	15.94	15.84	0.10
11-Jan-2008	15.23	14.72	0.51
14-Jan-2008	15.48	15.00	0.48
22-Jan-2008	15.79	15.35	0.44
23-Jan-2008	Geopump serviced by EI		
29-Jan-2008	15.66	15.54	0.12
4-Feb-2008	14.75	14.80	0.05
7-Feb-2008	14.95	14.92	0.03
12-Feb-2008	15.75	15.72	0.03
26-Feb-2008	16.19	16.02	0.17

Table 7
Free Product Removal Log
Former Glovatorium Site
3820 Manila Avenue, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
SOMA-4			
2008			
4-Mar-2008	16.27	16.13	0.14
17-Mar-2008	16.65	16.56	0.09
25-Mar-2008	16.97	16.88	0.09
5-Aug-2008	13.95	13.55	0.40
21-Aug-2008	13.82	13.22	0.60
2-Sep-2008		Begin MPE Pilot Test	
11-Sep-2008	14.00	13.60	0.40
19-Sep-2008	14.25	13.40	0.85
26-Sep-2008	14.01	13.10	0.91
2-Oct-2008	14.00	13.00	1.00
9-Oct-2008	14.00	12.95	1.05
24-Oct-2008	13.20	13.09	0.11
No FP observed since then			
B-8			
2001			
18-Oct-2001	12.31	10.21	2.10
2002			
31-Jan-2002	6.79	6.29	0.50
10-Apr-2002	8.22	8.08	0.14
29-Apr-2002	8.55	8.45	0.10
3-Oct-2002	10.40	9.64	0.76
7-Oct-2002	10.37	8.79	1.58
8-Oct-2002	10.28	9.68	0.60
14-Oct-2002	10.30	9.69	0.61
22-Oct-2002	10.39	9.70	0.69
2003			
18-Jul-2003	9.40	9.17	0.23
2005			
29-Jun-2005	11.50	11.25	0.25
18-Jul-2005	10.90	10.10	0.80
25-Jul-2005	10.92	10.20	0.72
1-Aug-2005	10.85	9.85	1.00
24-Aug-2005	10.35	10.10	0.25
31-Aug-2005	10.48	10.10	0.38
6-Sep-2005	10.86	10.59	0.27
12-Sep-2005	10.59	10.00	0.59
19-Sep-2005	11.20	10.60	0.60
5-Oct-2005	11.30	10.50	0.80
2006			
4-Jan-2006	9.50	8.00	1.50
12-Jan-2006	11.40	10.20	1.20
18-Jan-2006	11.93	11.00	0.93
24-Jan-2006	8.65	8.65	0.00
26-Jan-2006	8.72	8.70	0.02
13-Feb-2006	8.82	8.59	0.23
27-Feb-2006	8.81	8.61	0.20
10-Mar-2006	7.45	6.85	0.60
20-Mar-2006	7.90	7.20	0.70
30-Mar-2006	7.88	7.00	0.88

Table 7
Free Product Removal Log
Former Glovatorium Site
3820 Manila Avenue, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
B-8			
2006			
6-Apr-2006	7.91	7.90	0.01
18-Apr-2006	began extracting free product using GeoTech pump		
1-May-2006	8.34	8.31	0.03
22-May-2006	9.51	8.92	0.59
1-Jun-2006	9.81	9.30	0.51
7-Jun-2006	10.24	9.51	0.73
14-Jun-2006	10.58	9.73	0.85
27-Jun-2006	9.04	8.92	0.12
27-Jun-2006	removed GeoTech pump from well		
13-Jul-2006	9.61	9.30	0.31
24-Jul-2006	9.70	9.26	0.44
3-Aug-2006	10.01	9.05	0.96
14-Aug-2006	10.41	9.69	0.72
25-Aug-2006	10.60	9.64	0.96
28-Aug-2006	10.62	9.80	0.82
7-Sep-2006	10.68	9.73	0.95
13-Sep-2006	10.65	9.78	0.87
27-Sep-2006	11.03	10.23	0.80
4-Oct-2006	11.00	10.20	0.80
11-Oct-2006	10.68	9.73	0.95
1-Nov-2006	11.39	10.24	1.15
22-Nov-2006	11.53	9.78	1.75
30-Nov-2006	11.64	9.25	2.39
8-Dec-2006	11.53	9.76	1.77
11-Dec-2006	11.44	9.68	1.76
2007			
8-Jan-2007	11.56	9.33	2.23
12-Jan-2007	11.58	9.33	2.25
16-Jan-2007	11.59	9.49	2.10
24-Jan-2007	11.77	9.70	2.07
31-Jan-2007	11.76	9.62	2.14
8-Feb-2007	11.92	9.71	2.21
14-Feb-2007	10.91	7.61	3.30
22-Feb-2007	11.46	8.54	2.92
9-Mar-2007	11.34	8.20	3.14
16-Mar-2007	11.53	8.60	2.93
22-Mar-2007	11.72	8.71	3.01
26-Mar-2007	11.71	8.81	2.90
26-Mar-2007	Started extracting free product from well B-8. Moved GeoTech pump from SOMA-4 to B-8		

Table 7
Free Product Removal Log
Former Glovatorium Site
3820 Manila Avenue, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
B-8			
4-Apr-2007	10.71	9.67	1.04
9-Apr-2007	10.83	9.91	0.92
17-May-2007	13.98	13.22	0.76
21-May-2007	13.98	13.20	0.78
31-May-2007	14.78	13.90	0.88
8-Jun-2007	15.44	14.72	0.72
11-Jun-2007	15.50	14.80	0.70
20-Jun-2007	15.43	14.80	0.63
29-Jun-2007	15.20	15.15	0.05
2-Jul-2007	15.32	15.29	0.03
12-Jul-2007	16.03	15.92	0.11
20-Jul-2007	15.95	15.85	0.10
25-Jul-2007	15.90	15.82	0.08
7-Aug-2007	17.18	17.12	0.06
16-Aug-2007	16.87	-	0.00
22-Aug-2007	17.16	-	0.00
30-Aug-2007	17.68	-	0.00
7-Sep-2007	17.10	-	0.00
14-Sep-2007	17.09	-	0.00
21-Sep-2007	17.00	-	-
29-Nov-2007	16.47	-	-
21-Dec-2007	14.18	-	-
2008			
4-Jan-2008	13.69	-	-
11-Jan-2008	10.69	10.68	0.01
14-Jan-2008	11.25	11.23	0.02
22-Jan-2008	13.18	-	0.00
23-Jan-2008		Geopump serviced by EI	
29-Jan-2008	10.68	-	0.00
4-Feb-2008	10.09	-	0.00
7-Feb-2008	10.26	10.24	0.02
12-Feb-2008	11.24	11.21	0.03
26-Feb-2008	10.85	NA	0.00
4-Mar-2008	12.97	NA	0.00
17-Mar-2008	14.92	NA	0.00
25-Mar-2008	15.41	NA	NA
5-Aug-2008	13.19	NA	NA
21-Aug-2008	13.02	NA	NA
No FP observed since then			

Table 7
Free Product Removal Log
Former Glovatorium Site
3820 Manila Avenue, Oakland, CA

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
B-10			
20-Feb-2008	11.75	8.99	2.76
26-Feb-2008	9.94	8.37	1.57
4-Mar-2008	9.23	9.21	0.02
17-Mar-2008	9.9	9.87	0.03
25-Mar-2008	10.15	10.12	0.03
5-Aug-2008	11.03	10.96	0.07
21-Aug-2008	11.03	10.86	0.17
2-Sep-2008		Begin MPE Pilot Test	
3-Sep-2008	11.51	11.33	0.18
11-Sep-2008	13.93	12.55	1.38
19-Sep-2008	12.87	12.10	0.77
24-Oct-2008	11.33	NA	NA
No FP observed since then			
SOMA-2			
20-Feb-2008	10	9.29	0.71
25-Mar-2008	10.67	10.02	0.65
5-Aug-2008	11.38	10.84	0.46
21-Aug-2008	11.36	10.76	0.6
2-Sep-2008		Begin MPE Pilot Test	
3-Sep-2008	11.62	11.3	0.32
5-Sep-2008	11.77	11.42	0.35
24-Sep-2008	12.87	12.25	0.62
30-Sep-2008	12.6	11.9	0.7
6-Oct-2008	12.32	11.66	0.66
16-Oct-2008	12.6	11.85	0.75
24-Oct-2008	11.42	NA	NA
2009			
11-Aug-2009	12.69	12.51	0.18
MPE-2			
2-Jun-2009	12.72	11.85	0.87
3-Jun-2009	11.9	11.70	0.2
MPE-3			
2-Jun-2009	11.55	11.50	0.05
3-Jun-2009	11.39	11.31	0.08
11-Aug-2009	11.33	11.19	0.14

FIGURES



approximate scale in feet



Figure 1: Site vicinity map.



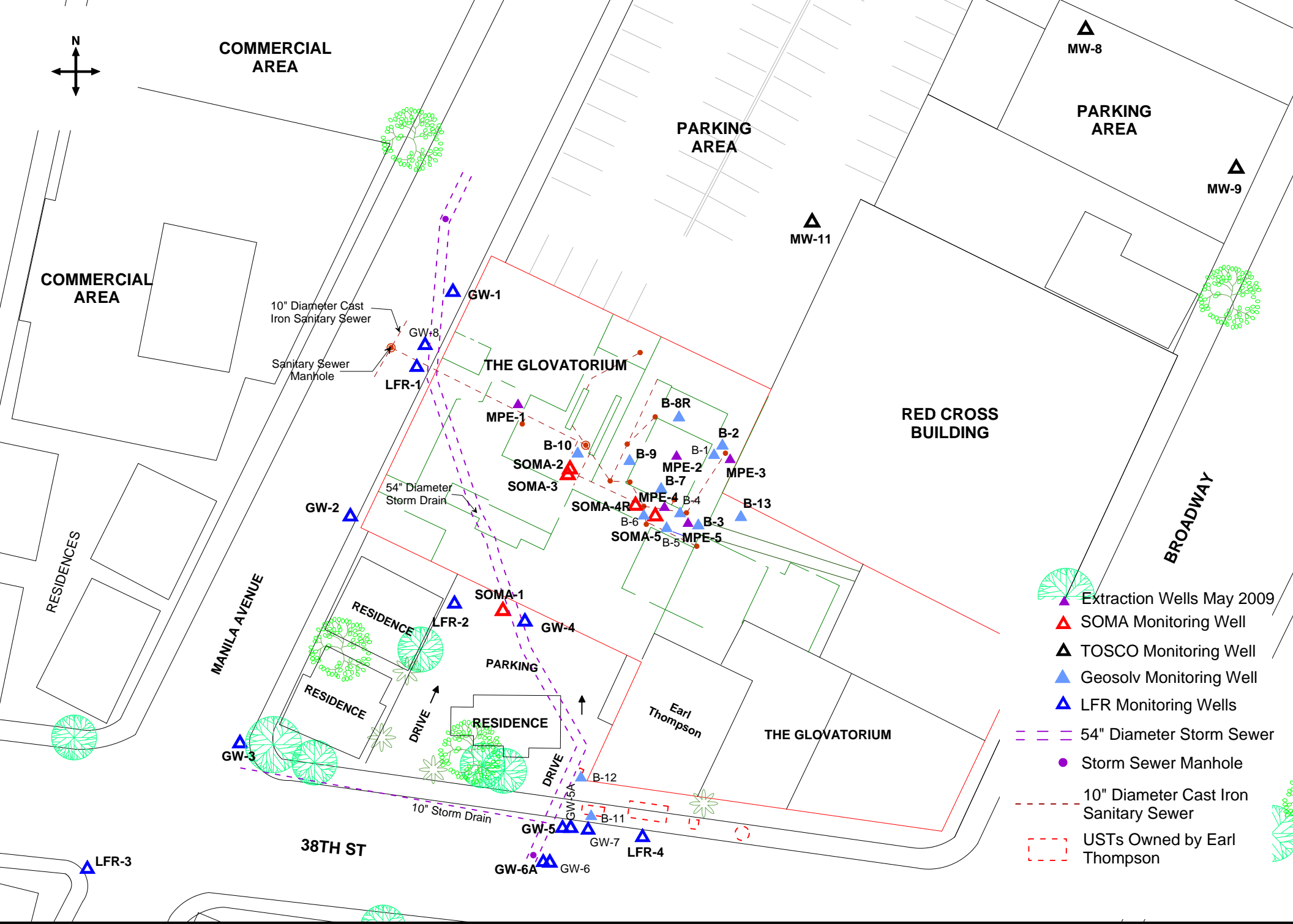
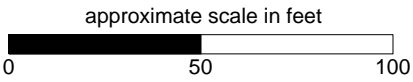
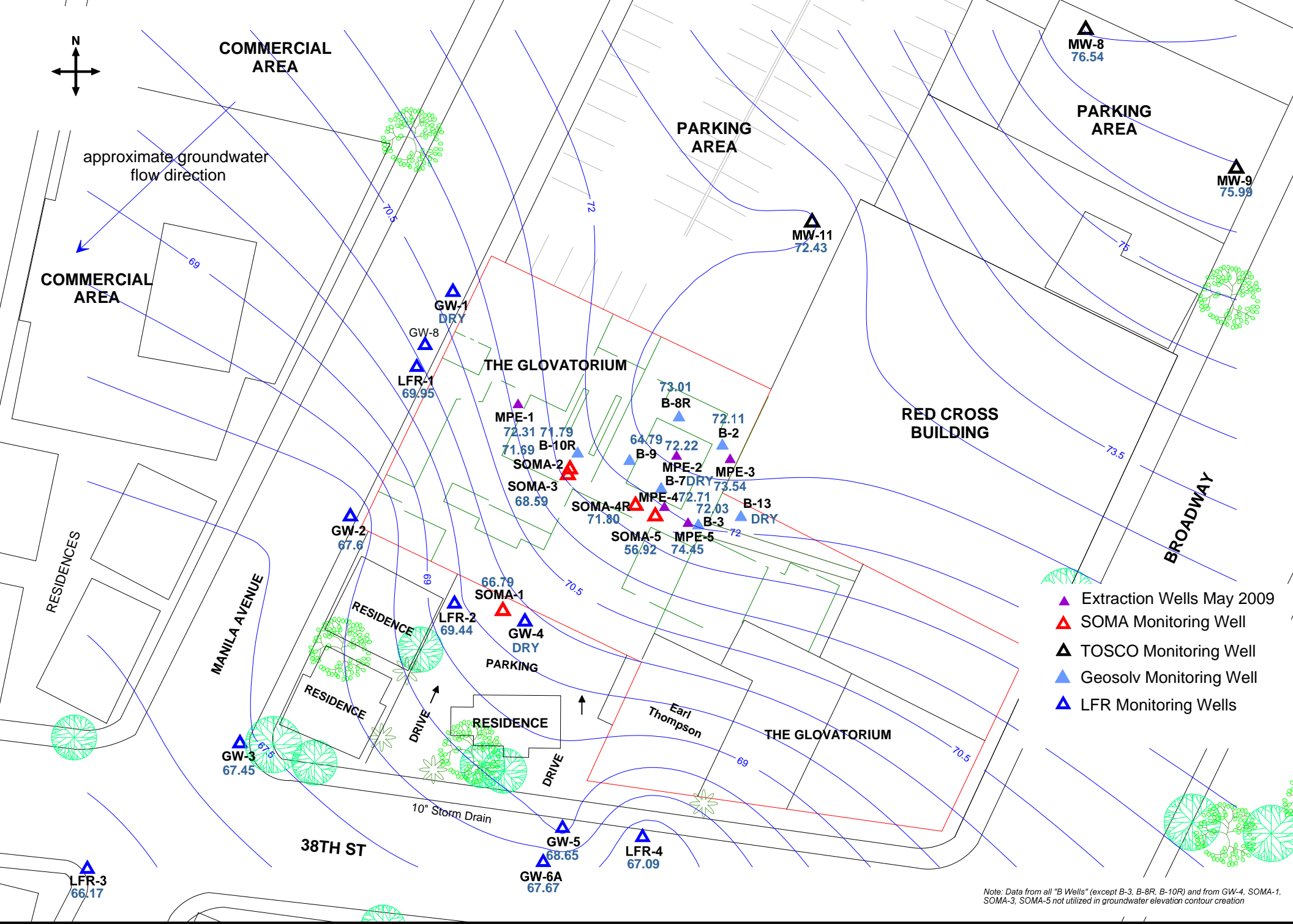


Figure 2: Map showing the approximate locations of groundwater monitoring wells.

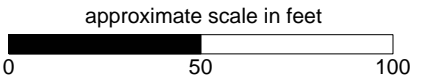




- ▲ Extraction Wells May 2009
- ▲ SOMA Monitoring Well
- ▲ TOSCO Monitoring Well
- ▲ Geosolv Monitoring Well
- ▲ LFR Monitoring Wells

Note: Data from all "B Wells" (except B-3, B-8R, B-10R) and from GW-4, SOMA-1, SOMA-3, SOMA-5 not utilized in groundwater elevation contour creation

Figure 3: Groundwater elevation contour map in feet. August 11, 2009



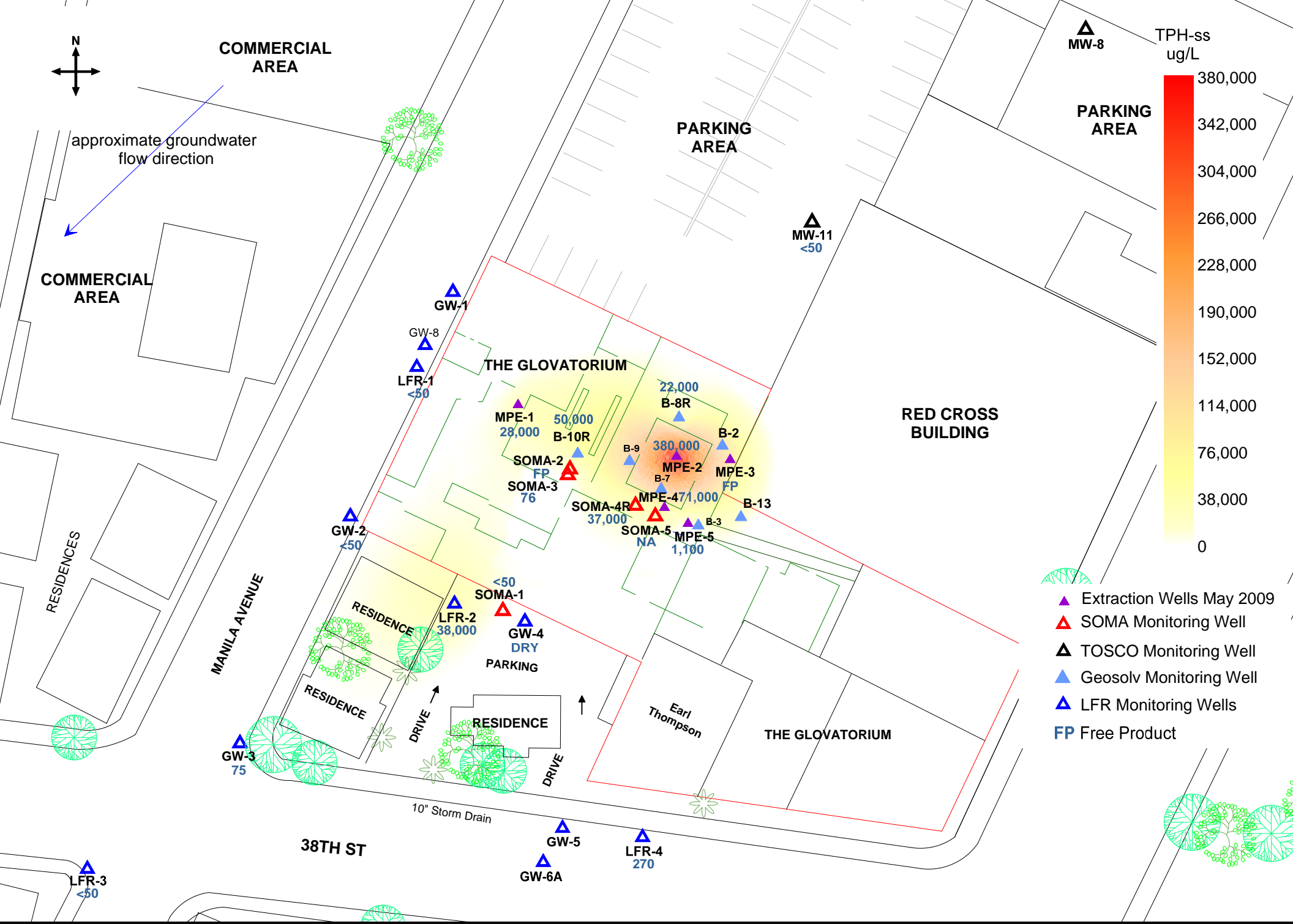


Figure 4: Contour Map of TPH-ss Concentrations in Groundwater. August 11 and 12, 2009

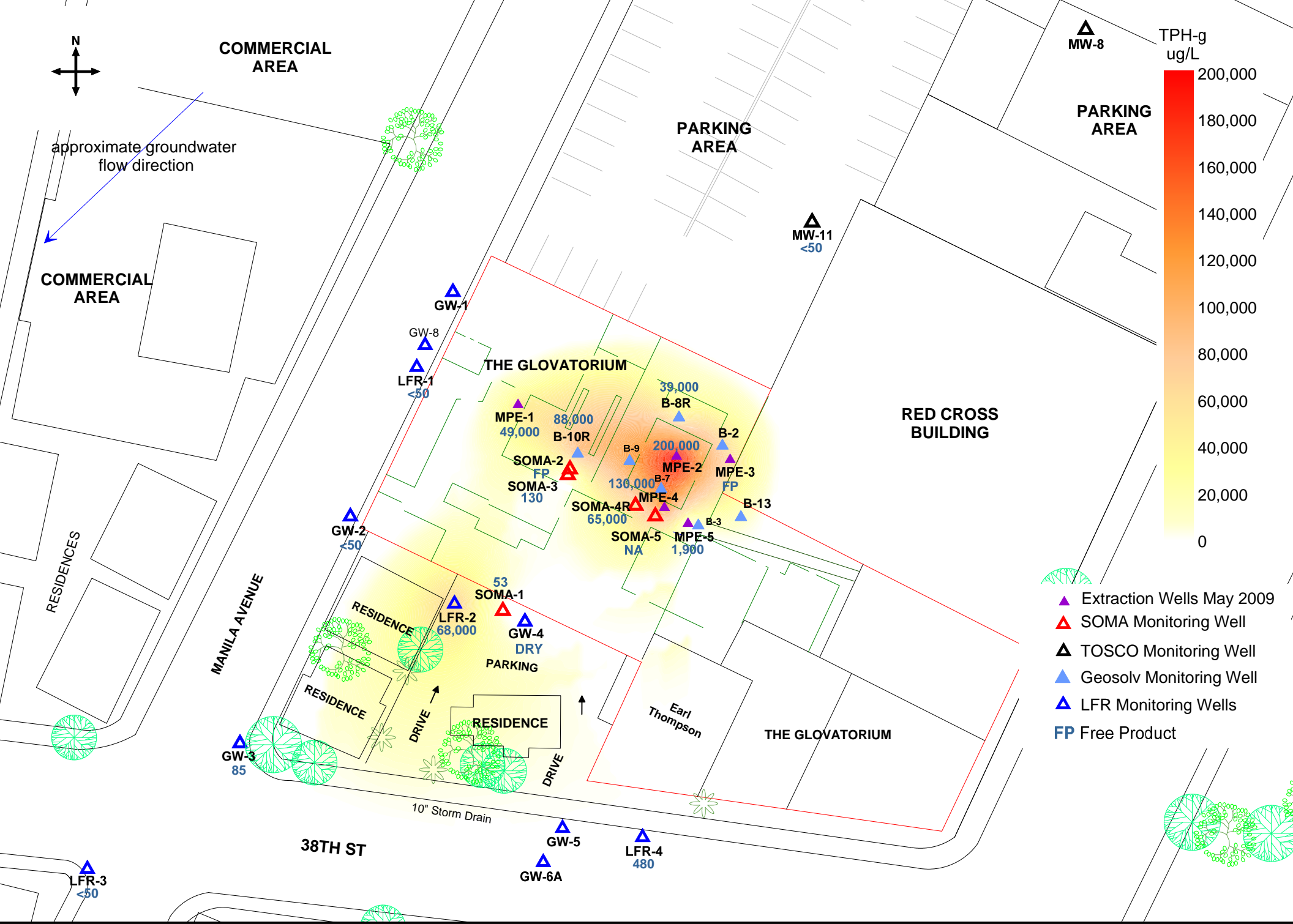


Figure 5: Contour Map of TPH-g Concentrations in Groundwater. August 11 and 12, 2009

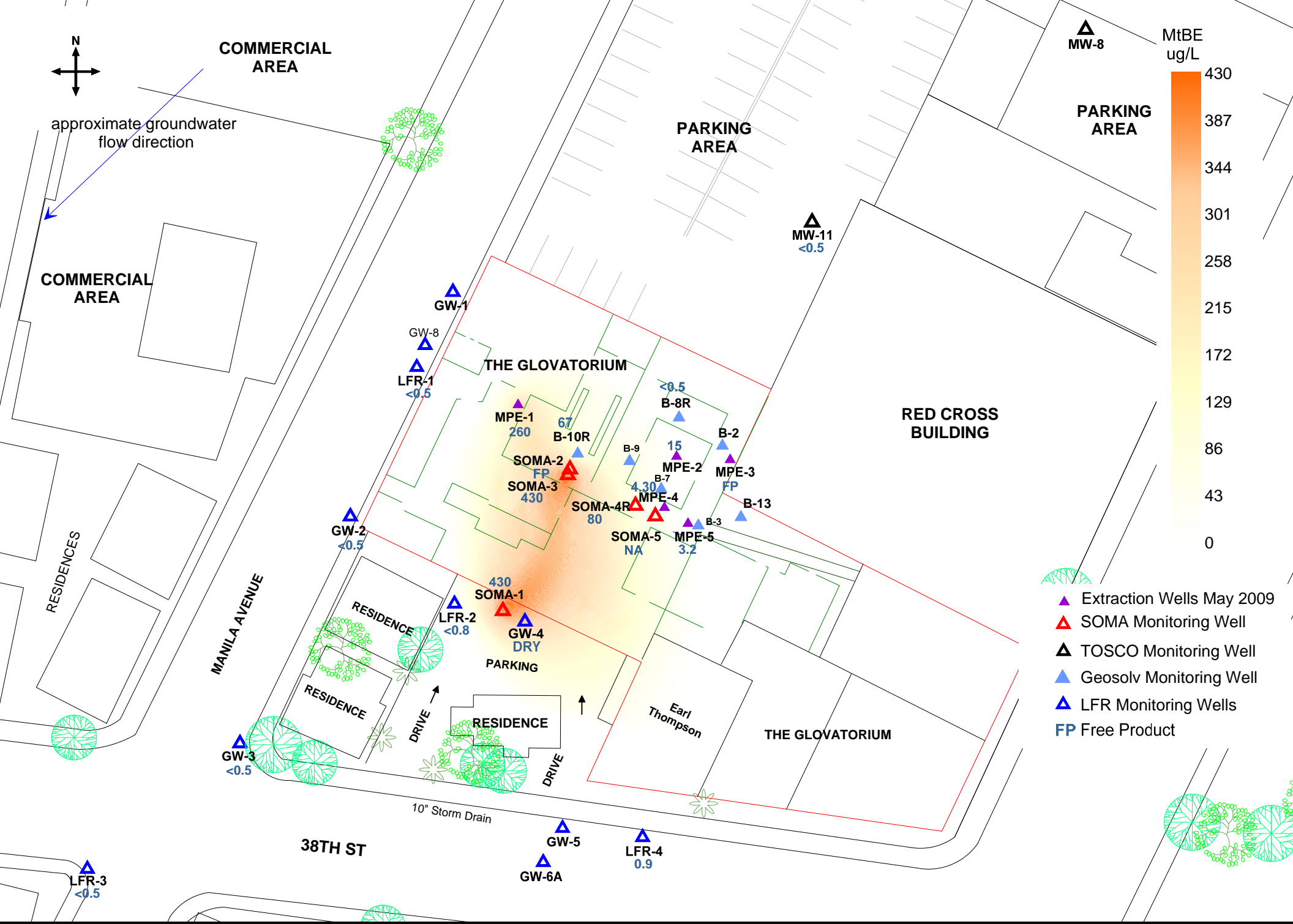
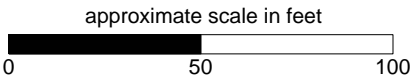


Figure 6: Contour Map of MtBE Concentrations in Groundwater.
August 11 and 12, 2009



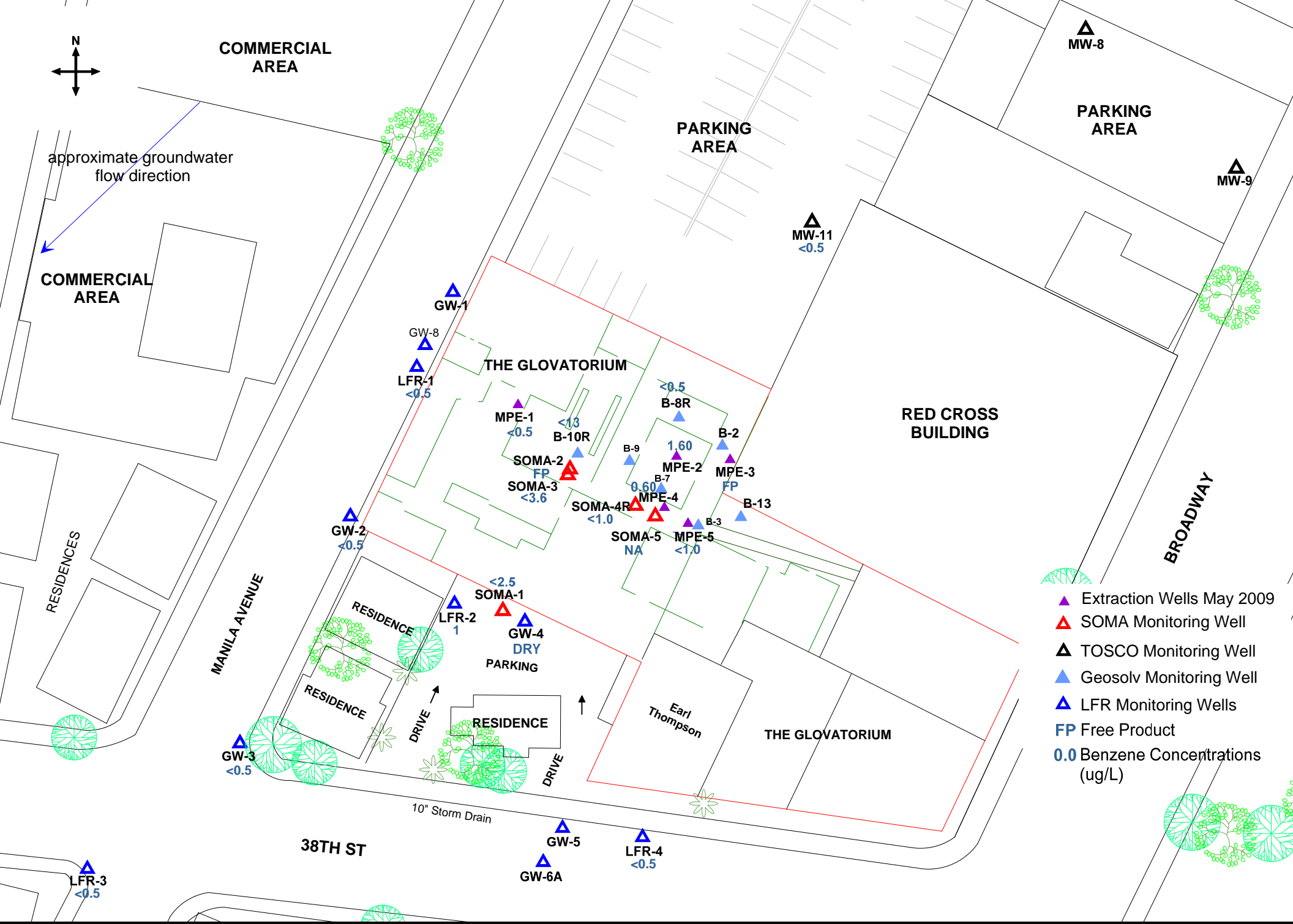
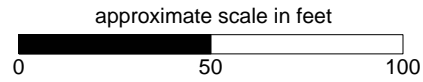


Figure 7: Map of benzene Concentrations in Groundwater. August 11 and 12, 2009



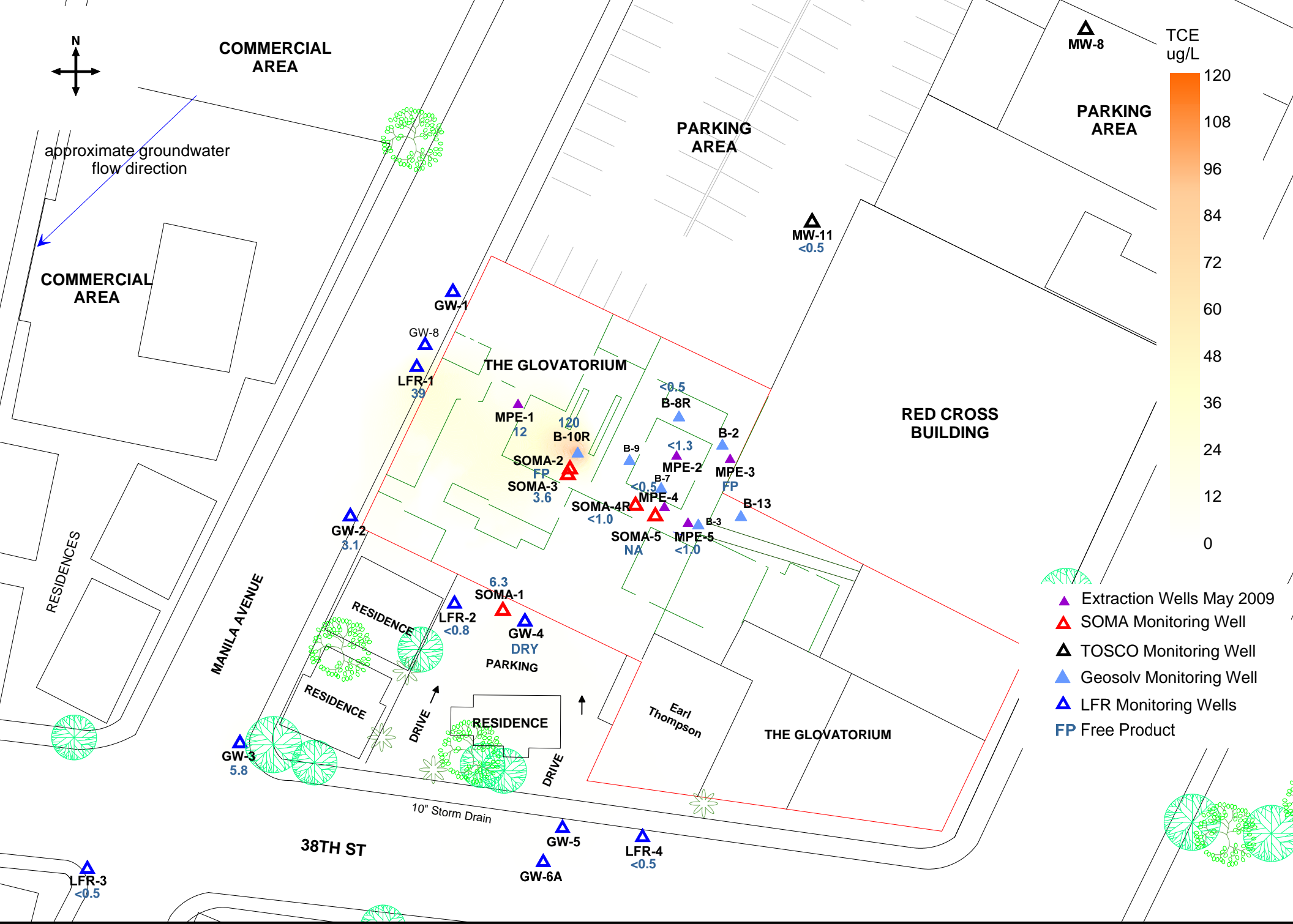
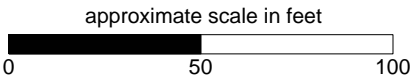


Figure 9: Contour Map of TCE Concentrations in Groundwater. August 11 and 12, 2009



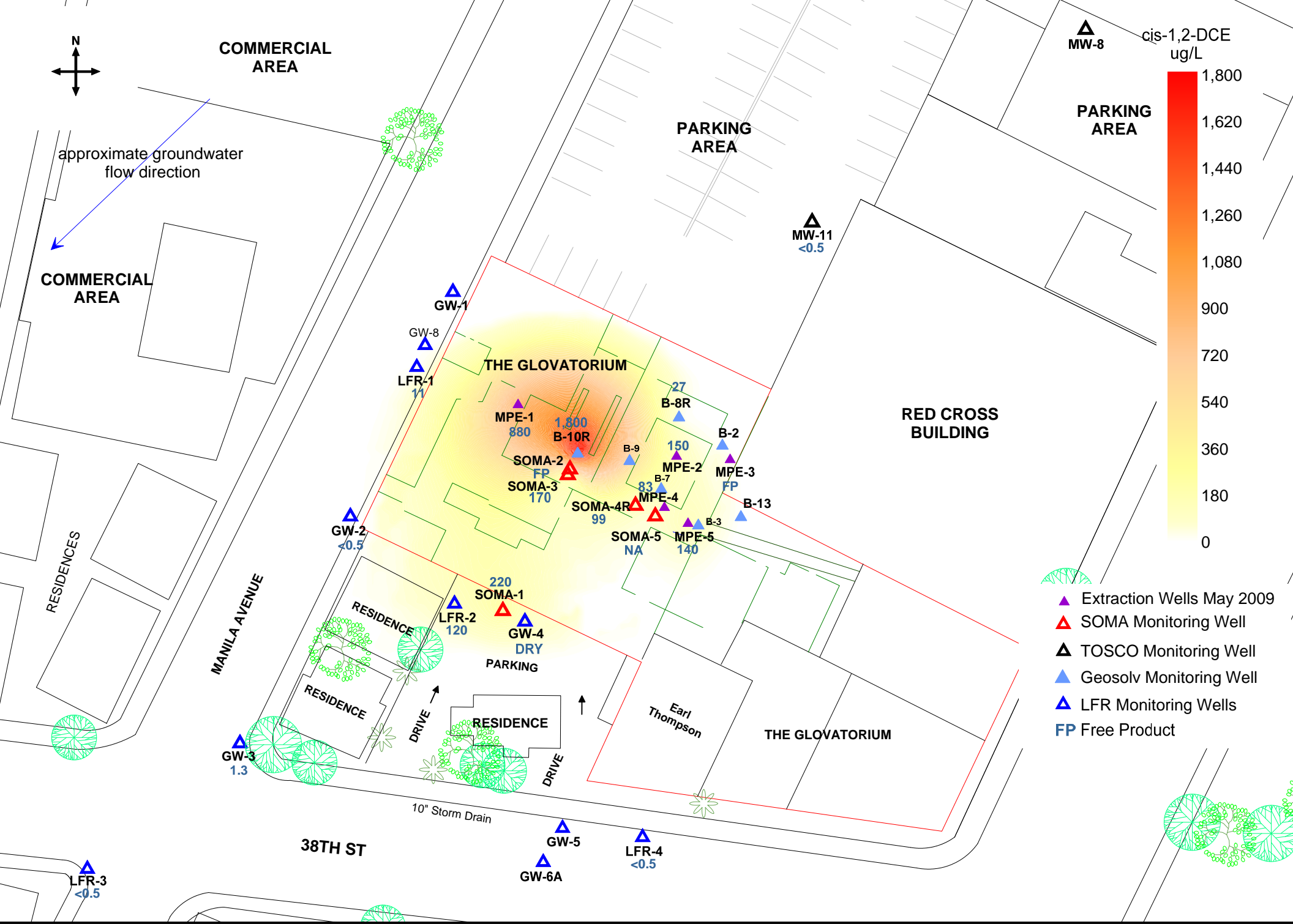


Figure 10: Contour Map of Cis-1,2-Dichloroethene Concentrations in Groundwater. August 11 and 12, 2009

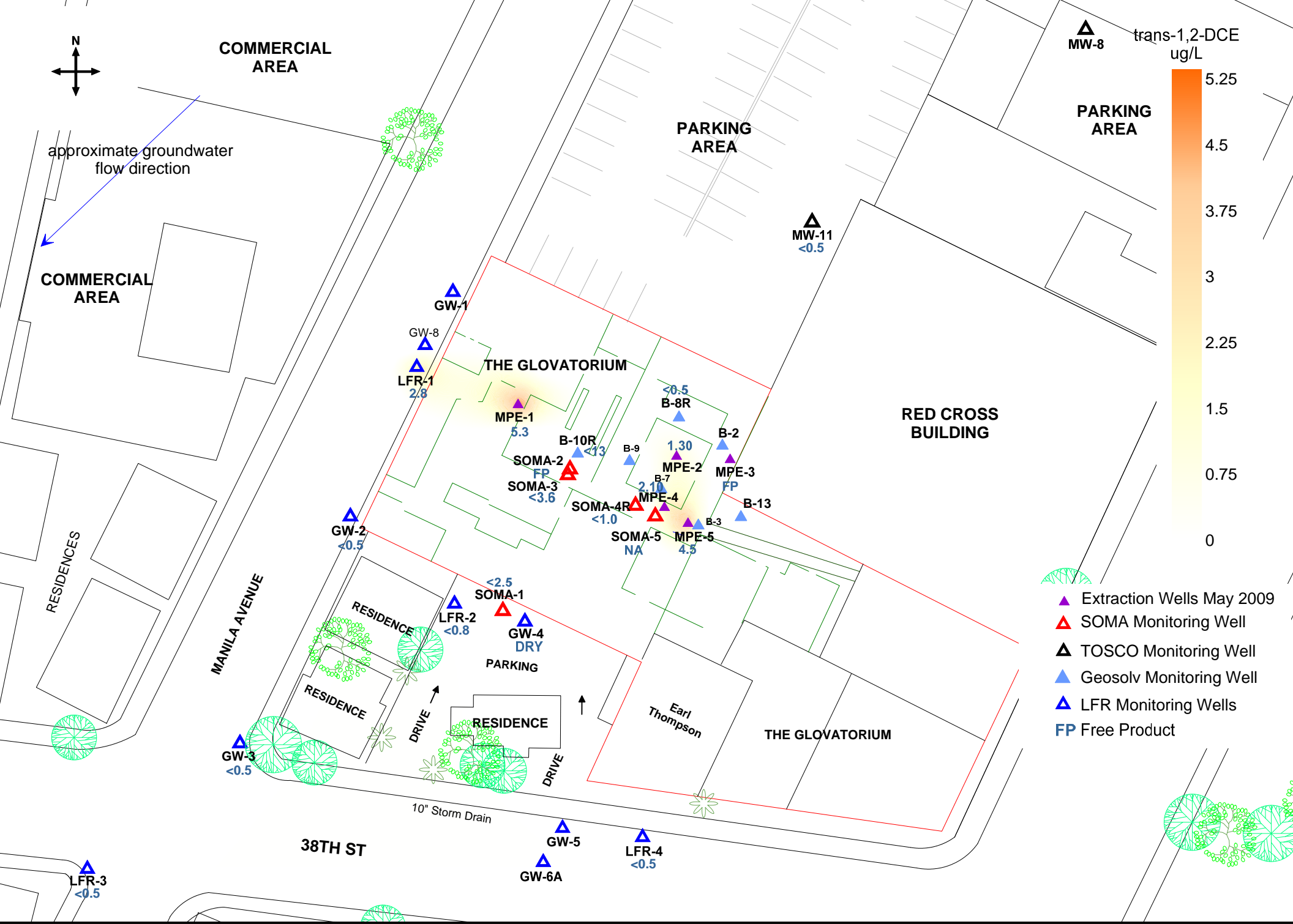


Figure 11: Contour Map of Trans-1,2-Dichloroethene Concentrations in Groundwater. August 11 and 12, 2009

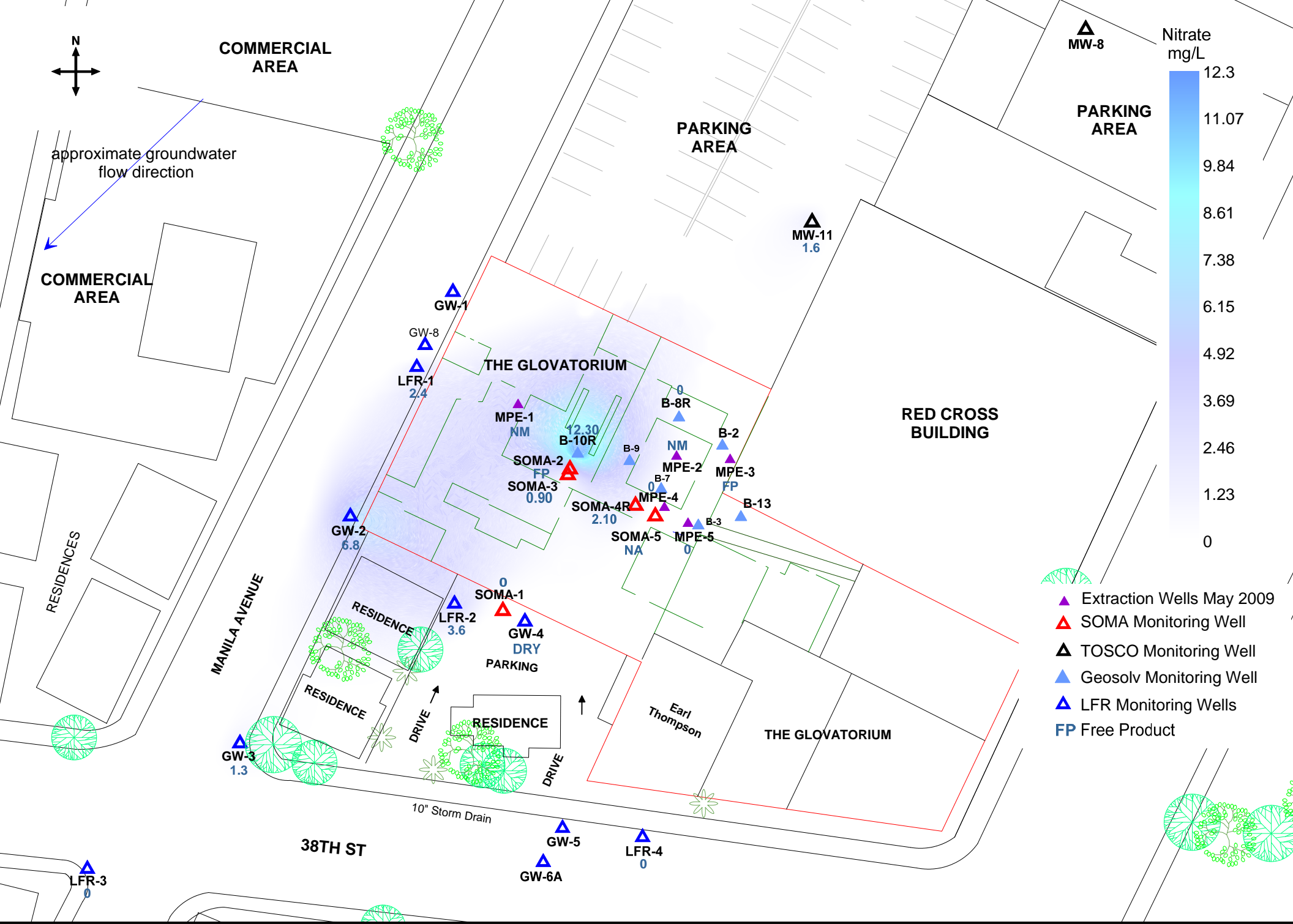
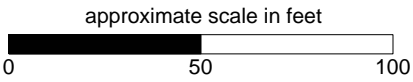


Figure 13: Contour Map of Nitrate Concentrations in Groundwater. August 11 and 12, 2009



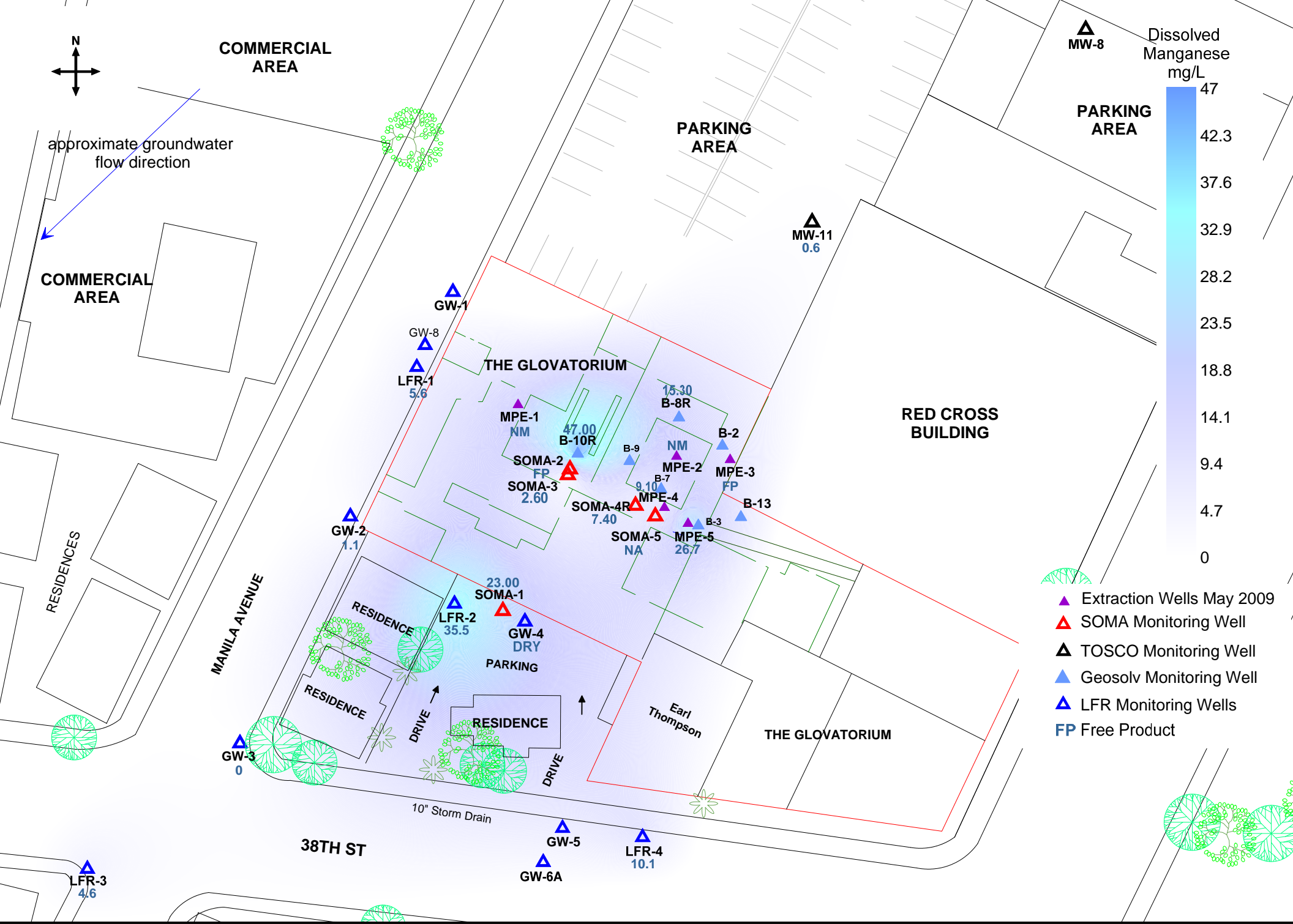


Figure 14: Contour Map of Dissolved Manganese Concentrations in Groundwater. August 11 and 12, 2009

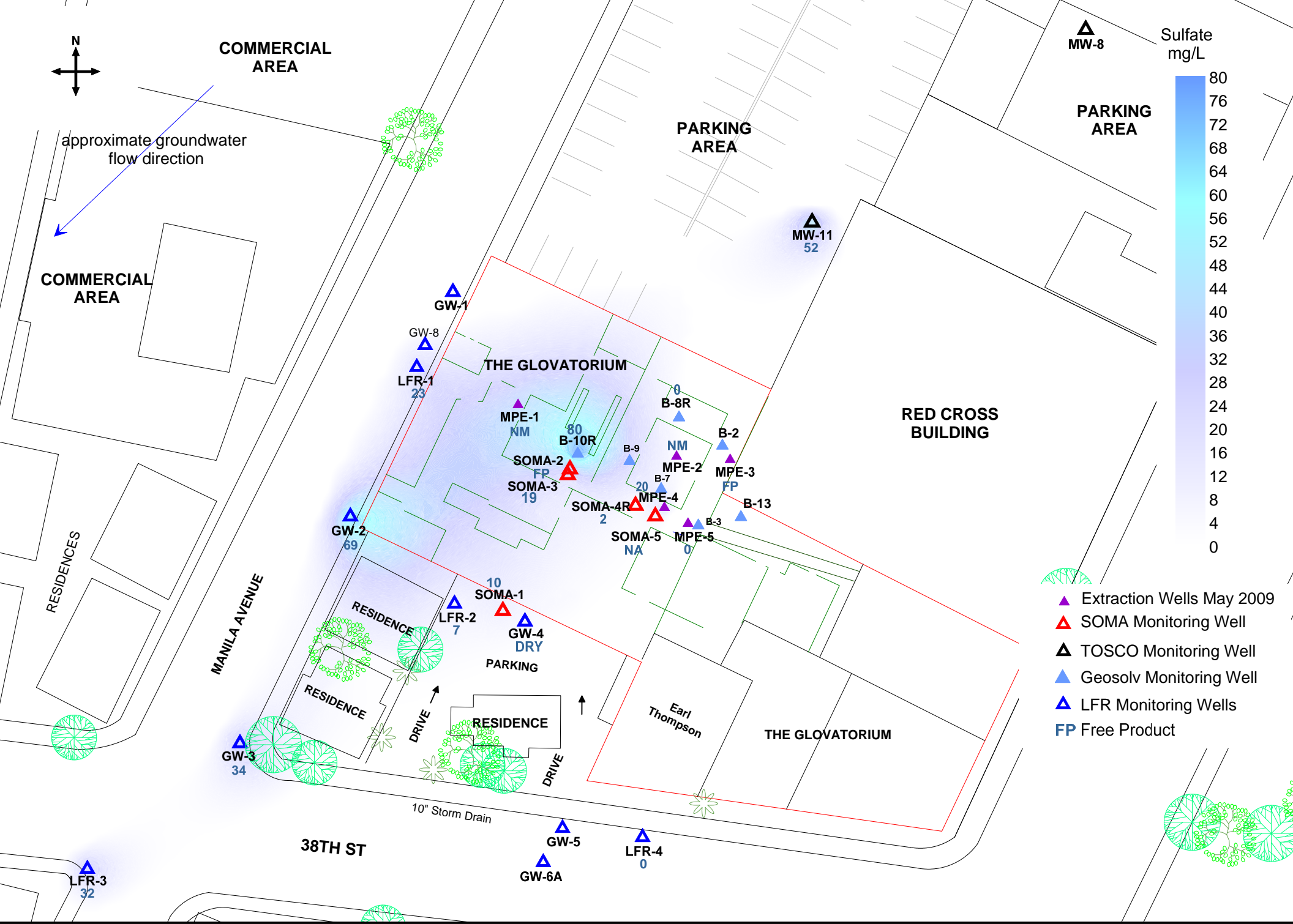


Figure 15: Contour Map of Sulfate Concentrations in Groundwater. August 11 and 12, 2009

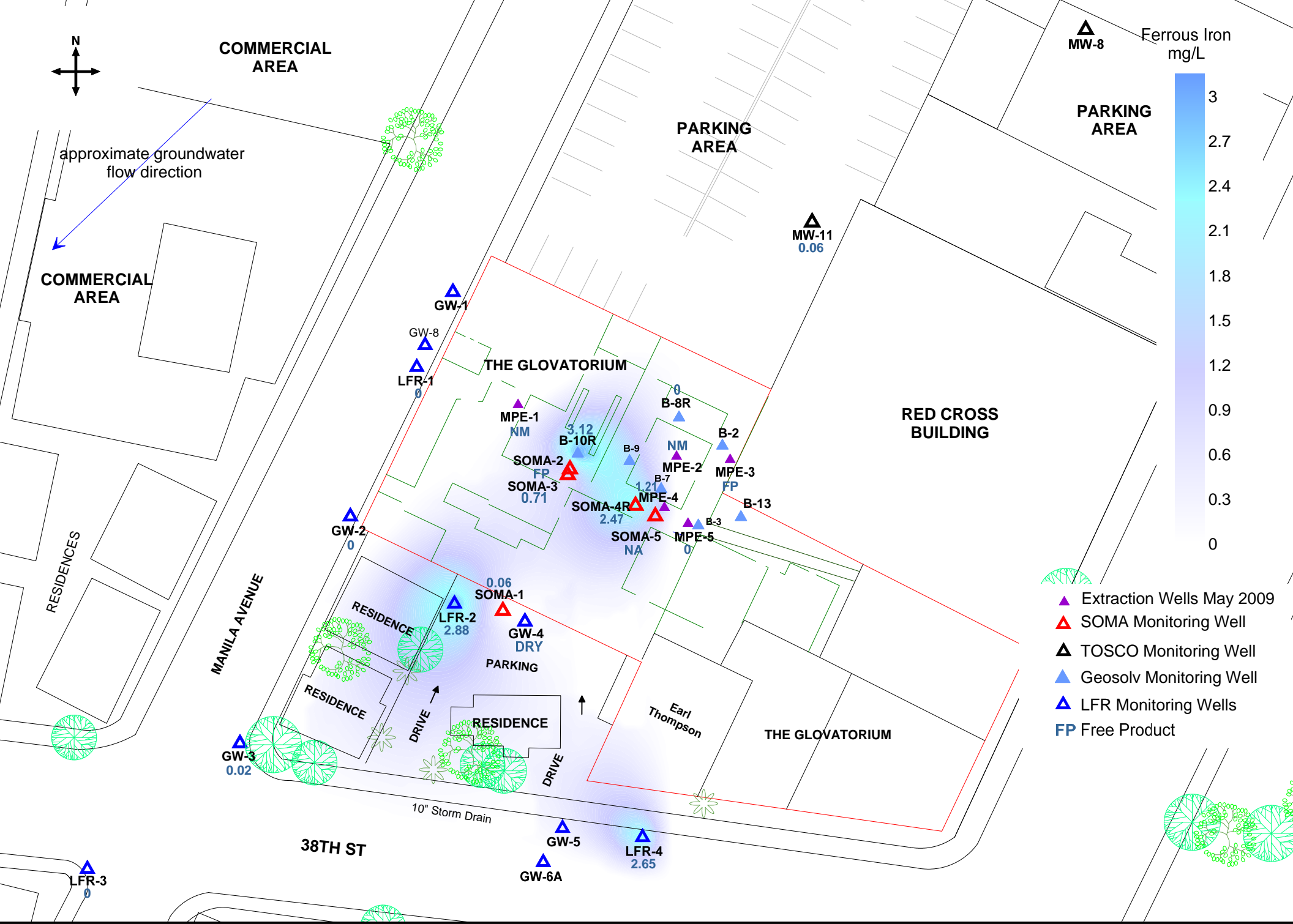
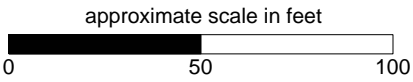


Figure 16: Contour Map of Ferrous Iron Concentrations in Groundwater. August 11 and 12, 2009



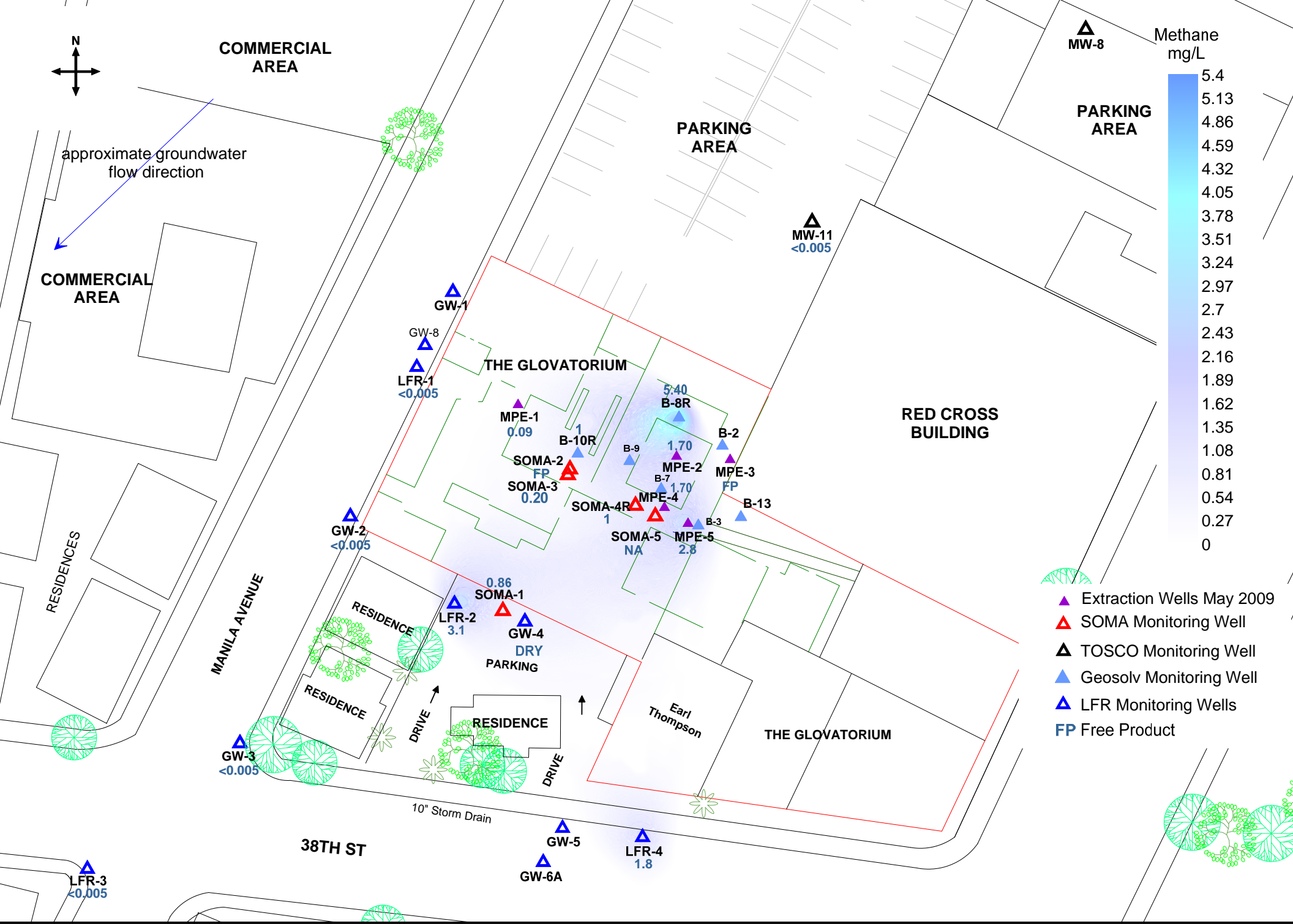


Figure 17: Contour Map of Methane Concentrations in Groundwater. August 11 and 12, 2009

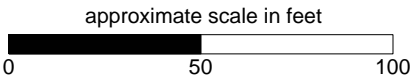
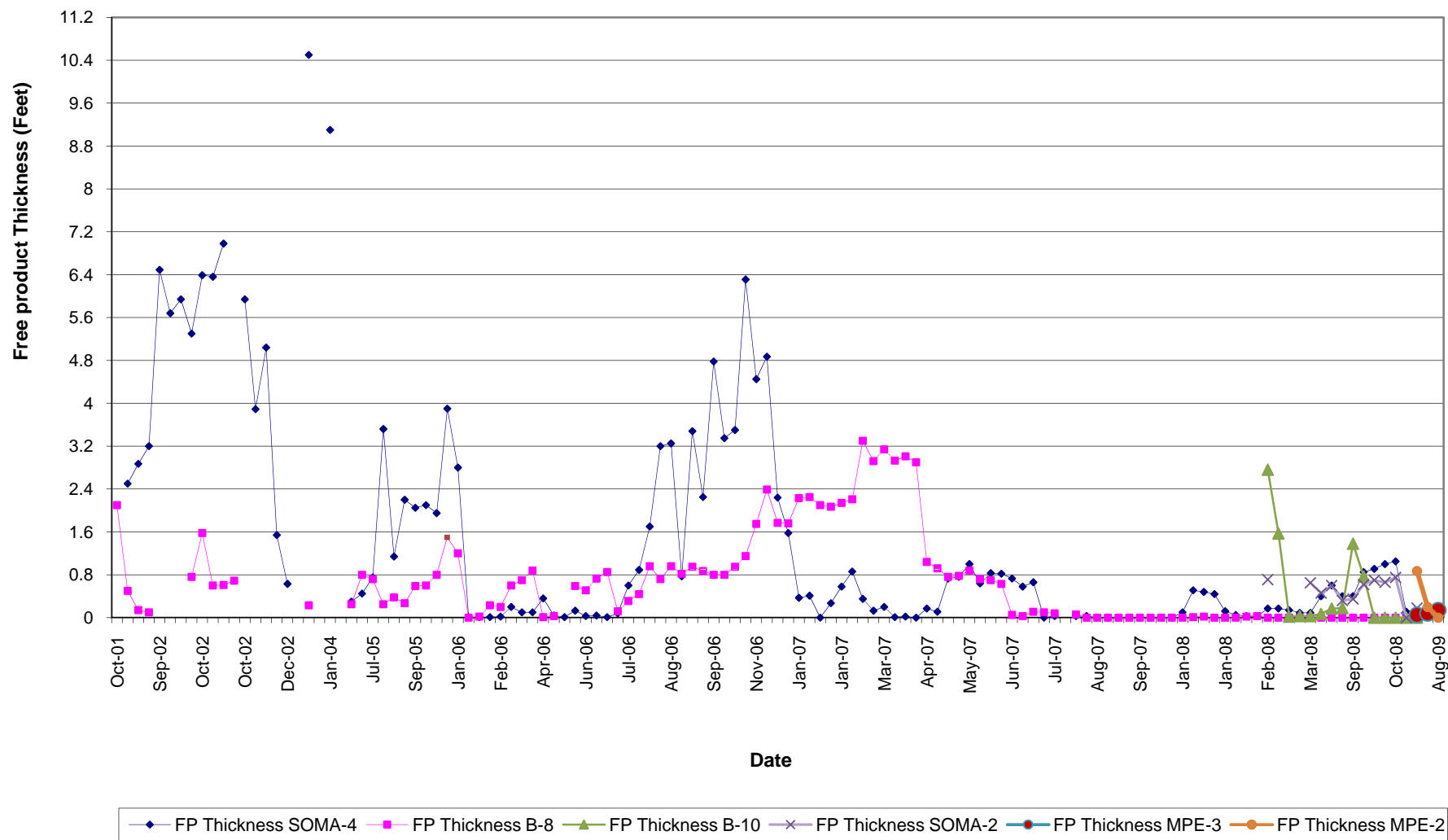


Figure 18
Free Product Thickness
Former Glovatorium Site
3820 Manila Avenue, Oakland, California



APPENDIX A

SOMA's Groundwater Monitoring Procedures

Field Activities

Field activities were conducted on August 11 and 12, 2009. During this event, 16 monitoring wells were sampled. Depths to groundwater were measured in 30 groundwater monitoring wells and temporary sampling points. SOMA-5 was not sampled due to insufficient water for purging and sampling. GW-4 could not be sampled because it was dry. Wells SOMA-2 and MPE-3 were not sampled due to the presence of free product. Figure 2 shows locations of groundwater monitoring wells and temporary sampling points.

On August 11, 2009, SOMA's field crew measured depths to groundwater in the monitoring wells and temporary groundwater sampling points from the top of the casings to the nearest 0.01 feet using an electrical sounder. The depth to groundwater and top of the casing elevation were used to calculate the Site's groundwater elevation at each sounding location.

Prior to sample collection, each well was purged using a battery-operated, 2-inch-diameter pump (Model ES-60 DC) or a GeoTech pump (for the smaller ¾-inch diameter temporary wells). During the purging activities, the groundwater was measured for parameters such as DO, pH, temperature, EC, and the ORP using a Hanna HI-9828 multi-parameter instrument. Turbidity was measured using a Hanna HI-98703 portable turbidimeter. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

The purging continued until the parameters for pH, temperature, EC, DO, turbidity, and ORP stabilized, or three casing volumes were purged. The groundwater samples were also tested on-site for nitrate, nitrite, sulfate, total iron, ferrous iron and dissolved manganese concentrations, once stabilization occurred, using the Hach Colorimeter (Model 890). The Hach Colorimeter is a microprocessor-controlled photometer suitable for colorimetric testing in the laboratory or the field. The required reagents for each specific test were provided in AccuVac ampules.

Nitrate was measured colorimetrically using Method 8039, the Cadmium Reduction Method. Cadmium metal in the NitraVer 5 Nitrate Reagent reduces nitrates present in the sample to nitrite; the nitrite ion reacts in an acidic medium with sulfanilic acid to form an intermediate diazonium salt, which couples with getistic acid to form an amber-colored product. The intensity of the color is proportional to the nitrate concentration in the sample.

Nitrite was measured colorimetrically using Method 8507, the Diazotization Method. Nitrite in the sample reacts with sulfanilic acid in the NitraVer 3 Nitrite Reagent to form an intermediate diazonium salt. The salt couples with chromotropic acid to produce a pink colored complex. The intensity of the color is proportional to the nitrite concentration in the sample.

Sulfate was measured colorimetrically using Method 8051, the SulfaVer 4 Method. Sulfate ions in the sample react with barium in the SulfaVer 4 Sulfate Reagent to form insoluble barium sulfate. The intensity of the subsequent color development is proportional to the sulfate concentration.

Ferrous iron was measured colorimetrically using Method 8146 (1,10-phenanthroline Method). The 1,10-phenanthroline indicator in the ferrous iron reagent reacts with Fe^{+2} in the sample to form an orange color. The intensity of the orange color is proportional to the iron concentration.

Total iron was measured colorimetrically using Method 8008. The FerroVer Iron Reagent reacts with all soluble and most insoluble forms of iron in the sample to produce soluble ferrous iron. This reacts with the 1,10-phenanthroline indicator in the reagent to form an orange color in proportion to the iron concentration.

Dissolved manganese was measured colorimetrically using Method 8034, the Periodate Oxidation Method. Manganese in the sample is oxidized to the purple permanganate state by sodium periodate, after buffering the sample with citrate. The purple color that develops as a result of this reaction is directly proportional to the manganese concentration.

After purging, a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater samples from the smaller diameter 3/4-inch temporary wells were collected using the GeoTech pump and a battery pack. A 1/4-inch poly tube was placed in the temporary well, and groundwater was extracted through the tubing using the GeoTech pump.

The groundwater sample was transferred to nine 40-mL VOA vials and preserved with hydrochloric acid. The vials were then sealed to prevent the development of air bubbles within the headspace. The VOA vials containing the samples were immediately placed on ice and maintained at 4°C in a cooler. A chain of custody form was written and placed with the samples in the cooler. SOMA's field crew delivered the samples to Curtis & Tompkins, Ltd. Laboratory, in Berkeley, California, upon sampling completion.

Laboratory Analysis

Curtis & Tompkins, Ltd., a state-certified laboratory, analyzed the groundwater samples for TPH-g, TPH-ss, purgeable organics, which included BTEX and MtBE constituents, and methane. TPH-g and TPH-ss were prepared using EPA Method 5030B and measured using EPA Method 8015B. Purgeable organics, which included BTEX and MtBE, were prepared using EPA Method 5030B and analyzed using EPA Method 8260B. Methane was analyzed using RSK-175.

APPENDIX B

Table of Elevations and Coordinates on Wells;
Field Notes, Field Measured Physical
and Chemical Parameter Values

Virgil Chavez Land Surveying

312 Georgia Street, Suite 225
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

November 6, 2001
Project No. 1974-06

Mansour
Soma Environmental Engineering, Inc.
2680 Bishop Drive, Suite 203
San Ramon, CA 94583

Subject: Monitoring Well Survey
3815 Broadway
Oakland, CA

Dear Mansour:

This is to confirm that we have proceeded at your request to survey the monitoring wells located at the above referenced location. The survey was performed on October 30, 2001. The benchmark for the survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway. The coordinates are for top of casing based on your coordinate system. Measurements taken at approximate north side of top of box and top of casing. Benchmark Elev. = 85.41 feet, (NGVD 29).

<u>Well No.</u>	<u>Rim Elevation</u>	<u>TOC Elevation</u>	<u>Northing</u>	<u>Easting</u>
SOMA - 1	82.31'	81.64'	270.13	326.38
SOMA - 2	81.62'	81.39'	270.39	392.29
SOMA - 3	81.65'	81.42'	270.60	394.89
SOMA - 4	81.51'	81.09'	237.74	392.79
SOMA - 5	81.68'	81.50'	227.76	392.24

Sincerely,



Virgil D. Chavez
Virgil D. Chavez, PLS 6323

Harrington Surveys

Land Surveying & Mapping

2278 Larkey Lane, Walnut Creek, Ca. 94596 Phone (925)935-7228 Fax (925)935-5118
Cel (925)788-7359 E-Mail (ben5132@pacbell.net)

Soma Environmental Engineering
6620 Owens Dr
Suite A
Pleasanton Ca. 94588

July 02 2009

Attn: Erica Fisker
Job # 2908

Ref: 3820 Manila Ave., Oakland Ca.

HORIZONTAL CONTROL, NAD 88:

Survey based on California Coordinate System, Zone 3, NAD 83.

B TIDAL PID AE5211 NORTH 2,121,308.82 EAST 6,032,659.16 LAT. N37°47'44.25088"
W122°16'47.37830", NAVD 88, ELEV. 9.39.

PID HT0654, NORTH 2117,057.95 EAST 6,047,431.59, LAT. N37°43'11.04190"
W122°07'09.20691", NAVD 88, ELEV. 13.65.

GPS: TRIMBLE 5800, LEICA TCA 1800, 1" HORZ. & VERT.

EPOCH DATE 2007.00

OBSERVATION: EPOCH=180.

FIELD SURVEY: 7-02-09.

Ben Harrington
PLS 5132



3820 MANILA AVE.
OAKLAND CA.

HARRINGTON SURVEYS
2278 LARKEY LANE
WALNUT CREEK CA 94597

JOB # 2908
DATE: 07/07, 2009
PAGE OF 2

PT#	NORTH	EAST	ELEV	DESC.	LATITUDE N.DMS	LONGITUDE W.DMS	LATITUDE DEC. DEG.	LONGITUDE W.DEC.DEG.
1	2128400.26	6053866.77	84.03	SET PK-TC-S	37°49'37.58019"N	122°15'29.87854"W	37.827105609°N	122.268299593°W
3	2128379.12	6053814.43	83.46	SET PK-TC-N	37°49'37.36145"N	122°15'30.52580"W	37.827044848°N	122.268479389°W
5	2128167.60	6053704.79	81.21	SET PK-TC-W	37°49'35.25021"N	122°15'31.84259"W	37.826468393°N	122.268845164°W
7	2128323.25	6053926.32	84.57	SET PK/S-TP	37°49'36.83002"N	122°15'29.11835"W	37.828897228°N	122.258088432°W
8	2128279.40	6053906.51	84.58	SET X-TP	37°49'36.39285"N	122°15'29.35491"W	37.826775791°N	122.258154113°W
9	2128267.32	6053922.80	84.59	SET X-TP	37°49'36.27652"N	122°15'29.14905"W	37.826743478°N	122.258096958°W
10	2128289.53	6053933.85	84.77	SET N/S-TP	37°49'36.27652"N	122°15'29.01656"W	37.826805020°N	122.258060166°W
11	2128307.69	6053943.14	84.90	SET X-TP	37°49'36.27652"N	122°15'28.90501"W	37.826855379°N	122.258029171°W
51	2128287.63	6053907.85	83.98	B-10R NOTCH	37°49'36.27652"N	122°15'29.34011"W	37.826799170°N	122.258149248°W
52	2128287.88	6053908.08	84.60	B-10R PUNCH	37°49'36.27652"N	122°15'29.33866"W	37.826796242°N	122.258149628°W
53	2128286.82	6053907.95	84.58	B-10R FF	37°49'36.27652"N	122°15'29.38119"W	37.826776471°N	122.258161442°W
54	2128279.68	6053904.41	84.38	SOMA-2 NOTCH	37°49'36.27652"N	122°15'29.38072"W	37.826777138°N	122.258161172°W
55	2128279.93	6053904.49	84.61	SOMA-2 PUNCH	37°49'36.27652"N	122°15'29.37976"W	37.826773586°N	122.258161045°W
56	2128278.63	6053904.50	84.59	SOMA-2 FF	37°49'36.27652"N	122°15'29.63818"W	37.826857770°N	122.258232829°W
57	2128309.67	6053884.35	84.41	MPE-1 NOTCH	37°49'36.27652"N	122°15'29.63631"W	37.826857149°N	122.258232309°W
58	2128309.44	6053884.49	84.65	MPE-1 PUNCH	37°49'36.27652"N	122°15'29.63631"W	37.826855199°N	122.258231242°W
59	2128308.72	6053884.79	84.65	MPE-1 FF	37°49'36.27652"N	122°15'29.63631"W	37.826732814°N	122.258061416°W
60	2128263.25	6053932.99	83.95	SOMA-4R NOTCH	37°49'36.27652"N	122°15'29.63631"W	37.826733193°N	122.258062388°W
61	2128263.39	6053932.72	84.49	SOMA-4R PUNCH	37°49'36.27652"N	122°15'29.63631"W	37.826733289°N	122.258065526°W
62	2128263.44	6053931.81	84.50	SOMA-4R FF	37°49'36.27652"N	122°15'29.63631"W	122.258013051°W	122.258013222°W
63	2128260.22	6053946.91	84.45	MPE-4 NOTCH	37°49'36.27652"N	122°15'29.63631"W	37.826725212°N	122.258012083°W
64	2128260.45	6053946.86	84.80	MPE-4 PUNCH	37°49'36.27652"N	122°15'29.63631"W	37.826720467°N	122.257977014°W
65	2128259.61	6053947.18	84.82	MPE-4 FF	37°49'36.27652"N	122°15'29.63631"W	37.826719808°N	122.257977358°W
66	2128258.29	6053957.28	84.64	MPE-5 NOTCH	37°49'36.27652"N	122°15'29.63631"W	37.826719844°N	122.257973751°W
67	2128258.06	6053957.18	85.23	MPE-5 PUNCH	37°49'36.27652"N	122°15'29.63631"W	37.826790522°N	122.258005373°W
68	2128258.09	6053958.22	85.26	MPE-5 FF	37°49'36.27652"N	122°15'29.63631"W	37.826790304°N	122.258004595°W
69	2128283.95	6053949.57	84.66	MPE-2 NOTCH	37°49'36.27652"N	122°15'29.63631"W	37.826790210°N	122.258001410°W
70	2128283.87	6053949.79	85.09	MPE-2 PUNCH	37°49'36.27652"N	122°15'29.63631"W	37.826842611°N	122.257996005°W
71	2128283.82	6053950.71	85.06	MPE-2 FF	37°49'36.27652"N	122°15'29.63631"W	37.828842379°N	122.257995115°W
72	2128302.87	6053952.63	84.66	B-8R NOTCH	37°49'36.27652"N	122°15'29.63631"W	37.826841601°N	122.257992633°W
73	2128302.78	6053952.89	85.07	B-8R PUNCH	37°49'36.27652"N	122°15'29.63631"W		
74	2128302.48	6053953.60	85.05	B-8R FF	37°49'36.27652"N	122°15'29.63631"W		



Well Name: B-2
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 82.09 feet
 Depth to Groundwater: 9.98 feet
 Groundwater Elevation: 72.11 feet
 Water Column Height: — feet
 Purged Volume: — gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe: Unknown
 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: B-3
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 82.57 feet
 Depth to Groundwater: 10.54 feet
 Groundwater Elevation: 72.03 feet
 Water Column Height: — feet
 Purged Volume: — gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~12~~ 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

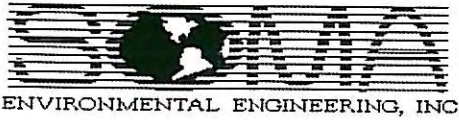
Color: No Yes Describe: Unknown
 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: B-7
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 76.96 feet
 Depth to Groundwater: DRY feet
 Groundwater Elevation: NC feet
 Water Column Height: - feet
 Purged Volume: - gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~12~~, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe: Unknown
 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well Name: B-2R
 Casing Diameter: 2 inch
 Depth of Well: 19.47 feet
 Top of Casing Elevation: 84.66 feet
 Depth to Groundwater: 11.65 feet
 Groundwater Elevation: 73.01 feet
 Water Column Height: 7.82 feet
 Purged Volume: 3 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 19, 2009
 Sampler: Lizzie Hightower
Eric Gussner-Wollwage

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

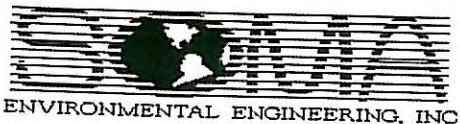
Color: No Yes Describe: _____
 Sheen: No Yes Describe: Slight rainbow
 Odor: No Yes Describe: Chemical

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1027	started purging well						
1030	1	6.52	18.11	0.21	1164	999	-42.9
1033	2	6.43	18.17	0.20	1169	999	-32.4
1036	3	6.48	18.17	0.17	1222	999	-41.4
1041	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
1100	0.00	1.00	0.00	0.043	0.00	15.3

Notes:



Well Name: B-9
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 77.37 feet
 Depth to Groundwater: 12.58 feet
 Groundwater Elevation: 64.79 feet
 Water Column Height: — feet
 Purged Volume: — gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~10~~, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

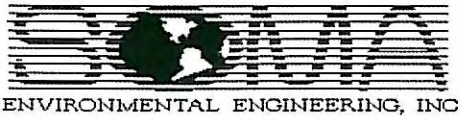
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 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: B-10R
 Casing Diameter: 2 inch
 Depth of Well: 19.25 feet
 Top of Casing Elevation: 83.98 feet
 Depth to Groundwater: 12.19 feet
 Groundwater Elevation: 71.79 feet
 Water Column Height: 7.06 feet
 Purged Volume: 3 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August ~~11~~ 12, 2009
 Sampler: Lizzie Hightower
Erie Gassner - Wollwege

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

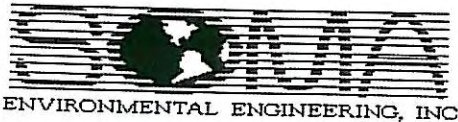
Color: No Yes Describe: cloudy
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: strong chemical

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1457	started pumping well						
1458	2	6.24	19.52	0.25	1083	300	-92.1
1459	4	6.21	18.89	0.19	1083	1000	-102.8
1505	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
15:27	3.12	3.30	12.3	0.070	80	47.0

Notes:



Well Name: B-13
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 84.58 feet
 Depth to Groundwater: DRY feet
 Groundwater Elevation: NC feet
 Water Column Height: - feet
 Purged Volume: - gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe: Unknown
 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: GW-1
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 79.94 feet
 Depth to Groundwater: DRY feet
 Groundwater Elevation: NC feet
 Water Column Height: - feet
 Purged Volume: - gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~12~~, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

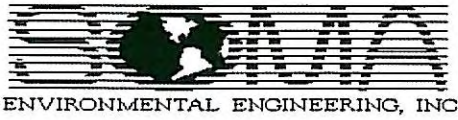
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 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: GW-2
 Casing Diameter: 3/4 inch
 Depth of Well: 20.00 feet
 Top of Casing Elevation: 79.14 feet
 Depth to Groundwater: 11.54 feet
 Groundwater Elevation: 67.60 feet
 Water Column Height: 8.46 feet
 Purged Volume: 0.50 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump Geotech
 Sampling Method: Bailer Pump Geotech
 Color: No Yes Describe: Very Slightly Cloudy
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
13:28	Started purging well						
14:29	0.25	6.48	20.09	1.13	585	260	+20.0
14:33	0.50	6.46	20.21	1.03	674	77.1	+30.2
17:38	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
15:00	6.00	0.07	6.8	0.00	69	1.1

Notes:



Well Name: GW-3
 Casing Diameter: 3/4 inch
 Depth of Well: 20.00 feet
 Top of Casing Elevation: 77.92 feet
 Depth to Groundwater: 10.47 feet
 Groundwater Elevation: 67.45 feet
 Water Column Height: 9.53 feet
 Purged Volume: 0.50 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer
 Sampling Method: Bailer

Pump *Geotech*
 Pump *Geotech*

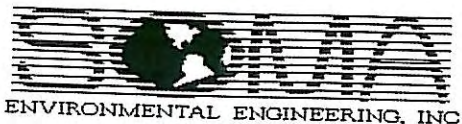
Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
14:07	Started purging well						
14:08	0.25	6.31	20.51	0.33	505	9.21	+1.0
14:10	0.50	6.30	20.47	0.50	474	5.37	+17.5
14:15	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
14:30	0.02	0.13	1.3	0.014	34	0.00

Notes:



Well Name: GW-4
 Casing Diameter: 3/4 inch
 Depth of Well: 12.00 feet
 Top of Casing Elevation: 82.37 feet
 Depth to Groundwater: DRY feet
 Groundwater Elevation: NC feet
 Water Column Height: - feet
 Purged Volume: - gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

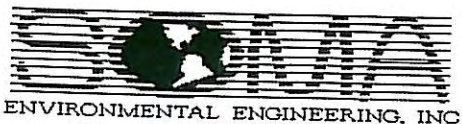
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 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: GW-5
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 81.01 feet
 Depth to Groundwater: 12.36 feet
 Groundwater Elevation: 68.65 feet
 Water Column Height: — feet
 Purged Volume: — gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~12~~, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

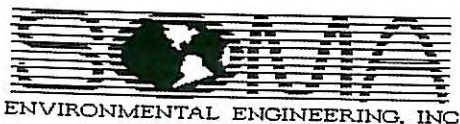
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 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: GW-6A
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 81.61 feet
 Depth to Groundwater: 13.94 feet
 Groundwater Elevation: 67.67 feet
 Water Column Height: _____ feet
 Purged Volume: _____ gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~12~~ 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

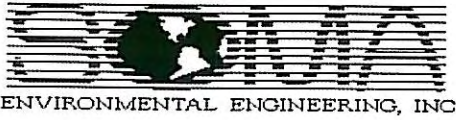
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 Sheen: No Yes Describe: unknown
 Odor: No Yes Describe: unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: MW-8
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 87.44 feet
 Depth to Groundwater: 10.90 feet
 Groundwater Elevation: 76.54 feet
 Water Column Height: - feet
 Purged Volume: - gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~12~~ 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

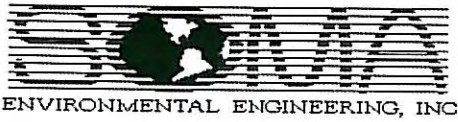
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 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: MW-9
 Casing Diameter: _____ inch
 Depth of Well: _____ feet
 Top of Casing Elevation: 86.56 feet
 Depth to Groundwater: 10.57 feet
 Groundwater Elevation: 75.99 feet
 Water Column Height: - feet
 Purged Volume: - gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~12~~, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

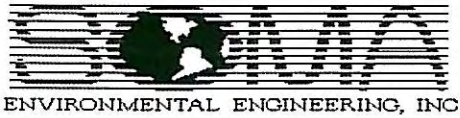
Color: No Yes Describe: Unknown
 Sheen: No Yes Describe: Unknown
 Odor: No Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes:



Well Name: MW-11
 Casing Diameter: 2 inch
 Depth of Well: 19.00 feet
 Top of Casing Elevation: 84.13 feet
 Depth to Groundwater: 11.70 feet
 Groundwater Elevation: 72.43 feet
 Water Column Height: 7.30 feet
 Purged Volume: #4 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August ~~11~~¹², 2009
 Sampler: Lizzie Hightower
~~Ronnie Matthews~~
 Eric Gassner - null wage

Purging Method: Bailer Pump ←
 Sampling Method: Bailer Pump
 Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
09:15	Started purging well						
09:16	2	6.03	19.92	1.35	1014	9.33	+1.9
09:17	4	6.00	19.91	1.39	1008	10.4	+2.3
09:22	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
9:38	0.06	0.16	1.6	0.003	52	0.6

Notes:



Well Name: LFR-1
 Casing Diameter: 2 inch
 Depth of Well: 19.00 feet
 Top of Casing Elevation: 79.97 feet
 Depth to Groundwater: 10.02 feet
 Groundwater Elevation: 69.95 feet
 Water Column Height: 8.98 feet
 Purged Volume: 6 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer
 Sampling Method: Bailer

Pump
 Pump

Color: No
 Sheen: No
 Odor: No

Yes Describe: cloudy
 Yes Describe: _____
 Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1517	<i>Started Purging</i>						
1518	2	6.27	19.43	0.16	638	27.5	12.0
1519	4	6.17	19.12	0.15	678	38.9	15.6
1520	6	6.18	18.72	0.14	652	35.2	15.3
1525	<i>Sampled</i>						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
1540	0.00	0.41	2.4	0.009	23	5.6

Notes:



Well Name: LFR-2
 Casing Diameter: 2 inch
 Depth of Well: 19.00 feet
 Top of Casing Elevation: 81.89 feet
 Depth to Groundwater: 12.45 feet
 Groundwater Elevation: 69.44 feet
 Water Column Height: 6.55 feet
 Purged Volume: 6 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: Cloudy
 Sheen: No Yes Describe: Rainbow Sheen
 Odor: No Yes Describe: Chemical Odor

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
12:25	Started						
12:26	2	6.47	18.18	0.27	283	999	-142.8
12:27	4	6.45	18.21	0.19	917	999	-141.9
12:28	6	6.45	18.56	0.16	943	999	-138.1
12:33	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
12:50	2.88	3.30	3.6	0.057	7	35.5

Notes:



Well Name: LFR-3
 Casing Diameter: 2 inch
 Depth of Well: 22.00 feet
 Top of Casing Elevation: 77.96 feet
 Depth to Groundwater: 11.79 feet
 Groundwater Elevation: 66.17 feet
 Water Column Height: 10.21 feet
 Purged Volume: 6 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: cloudy
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1318	Started Purging						
1319	2	6.30	20.56	0.17	478	37.1	-47.8
1320	4	6.18	19.97	0.25	483	34.8	-32.7
1321	6	6.11	19.66	0.12	482	39.3	-27.6
1326	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
13:45	0.00	0.12	0	0.007	32	4.6

Notes:



Well Name: LFR-4
 Casing Diameter: 2 inch
 Depth of Well: 19.30 feet
 Top of Casing Elevation: 81.65 feet
 Depth to Groundwater: 14.56 feet
 Groundwater Elevation: 67.09 feet
 Water Column Height: 4.74 feet
 Purged Volume: 2 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

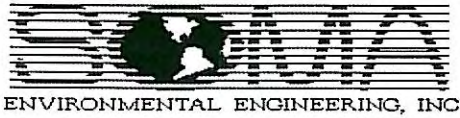
Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: cloudy
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
11:02	Started pumping well						
11:03	0.5	6.25	18.41	0.44	535	202	-46.9
11:05	1.0	6.21	17.97	0.45	510	440	-39.9
11:07	2.0	6.22	17.62	0.44	536	897	-29.7
11:12	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
11:30	2.65	3.30	0.0	0.073	0	10.1

Notes:



Well Name: SOMA-1
 Casing Diameter: 4 inch
 Depth of Well: 40.00 feet
 Top of Casing Elevation: 81.64 feet
 Depth to Groundwater: 14.85 feet
 Groundwater Elevation: 66.79 feet
 Water Column Height: 25.15 feet
 Purged Volume: 16 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

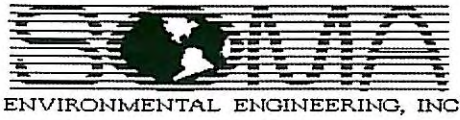
Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: slight chemical odor

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
11:46	Started purging well						
11:48	4	6.23	17.84	0.32	1104	5.11	-6.4
11:50	8	6.21	17.84	0.56	1104	4.43	-12.2
11:52	12	6.21	17.87	0.23	1102	3.46	-17.6
11:54	16	6.20	17.91	0.20	1102	3.20	-20.8
11:59	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
12:20	0.06	0.10	0.0	0.009	10	23.0

Notes:



Well Name: SOMA-2
 Casing Diameter: 2 inch
 Depth of Well: 20.00 feet
 Top of Casing Elevation: 84.38 feet
 Depth to Groundwater: 12.69 feet
 Groundwater Elevation: 71.69 feet
 Water Column Height: 7.31 feet
 Purged Volume: - gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~12~~, 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Not purged

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump Not sampled

Color: No Yes Describe: Unknown
 Sheen: No Yes Describe: Free Product
 Odor: No Yes Describe: Strong Chem/Petro odor

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes: 0.18 feet of free product
F.P. depth = 12.51 ft.



Well Name: SC11A-3
 Casing Diameter: 3/4 inch
 Depth of Well: 30.00 feet
 Top of Casing Elevation: 81.42 feet
 Depth to Groundwater: 12.83 feet
 Groundwater Elevation: 68.59 feet
 Water Column Height: 17.17 feet
 Purged Volume: 1.5 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August ~~11~~ 12, 2009
 Sampler: Lizzie Hightower
EMD GASSNER-WOLLEGE

Purging Method: Bailer
 Sampling Method: Bailer

Pump GeoTech
 Pump

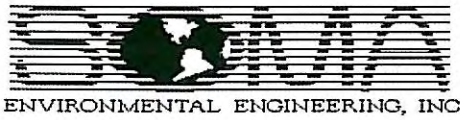
Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1417	Started purging well						
1422	.5	6.47	18.96	2.46	648	148	-10.8
1427	1	6.49	18.79	2.40	605	19.7	-41.6
1432	1.5	6.48	19.26	2.28	682	8.3	+4.3
1440	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
1502	0.71	0.75	0.9	0.028	19	2.6

Notes:



Well Name: SOMA-4R
 Casing Diameter: 2 inch
 Depth of Well: 19.54 feet
 Top of Casing Elevation: 83.95 feet
 Depth to Groundwater: 12.15 feet
 Groundwater Elevation: 71.80 feet
 Water Column Height: 7.39 feet
 Purged Volume: 4 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August ~~11~~12, 2009
 Sampler: Lizzie Hightower
Eric Gassner-Wolfgang

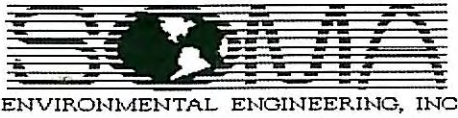
Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: dark gray
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: Chemical

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
13:26	Started purging						
13:27	2	6.27	17.86	0.27	1000	609	-140.3
13:28	4	6.25	17.86	0.23	1023	999	-138.1
13:31	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
13:50	2.47	2.93	2.1	0.008	2	7.4

Notes:



Well Name: SOMA-S
 Casing Diameter: 3/4 inch
 Depth of Well: 25.60 feet
 Top of Casing Elevation: 81.50 feet
 Depth to Groundwater: 24.58 feet
 Groundwater Elevation: 56.92 feet
 Water Column Height: 1.02 feet
 Purged Volume: — gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August ~~11~~ 12, 2009
 Sampler: Lizzie Hightower
Eric Gassner-Wallwage

Not purged

Purging Method: Bailer

Pump

Sampling Method: Bailer

Pump NOT sampled

Color: No

Yes Describe: Unknown

Sheen: No

Yes Describe: Unknown

Odor: No

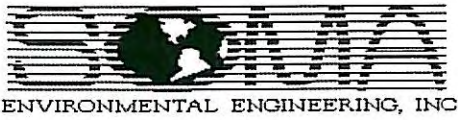
Yes Describe: Unknown

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes: Insufficient water in well for field measurements or samples, so none taken.



Well Name: MPE-1
 Casing Diameter: 2 inch
 Depth of Well: 19.82 feet
 Top of Casing Elevation: 84.41 feet
 Depth to Groundwater: 12.10 feet
 Groundwater Elevation: 72.31 feet
 Water Column Height: 7.72 feet
 Purged Volume: 3 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/12, 2009
 Sampler: Lizzie Hightower
Eric Grassner - Wellway

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe: Cloudy
 Sheen: No Yes Describe: Rainbow Sheen
 Odor: No Yes Describe: Strong Chem. Odor

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
10:07	Started purging well						
10:09	1	6.64	17.18	0.16	565	604	-53.1
10:11	2	6.62	17.38	0.12	535	999	-48.4
10:17	3	6.60	16.89	0.64	557	999	+0.2
10:22	Sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
10:00	0.00	1.02	0.00	0.045	0.02	153

Notes: Sample too cloudy for bio parameters.



Well Name: MPE-2
 Casing Diameter: 2 inch
 Depth of Well: 19.00 feet
 Top of Casing Elevation: 84.66 feet
 Depth to Groundwater: 12.74 feet
 Groundwater Elevation: 72.22 feet
 Water Column Height: 6.56 feet
 Purged Volume: 5 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August ~~11~~12, 2009
 Sampler: Lizzie Hightower
Eric Gassner-Wellwage

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

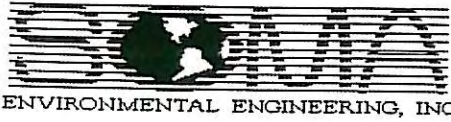
Color: No Yes Describe: brown/muddy
 Sheen: No Yes Describe: rainbow
 Odor: No Yes Describe: chemical

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
1127	started purging well						
1130	1	6.50	18.40	0.13	1077	999	-53.7
1133	2	6.43	18.30	0.11	1062	999	-56.8
1136	3	6.46	18.23	0.11	1043	999	-41.5
1141	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
1153						

Notes: Unable to take bioparameters, sample too cloudy



Well Name: MPE-3
 Casing Diameter: 2 inch
 Depth of Well: 19.32 feet
 Top of Casing Elevation: 84.87 feet
 Depth to Groundwater: 11.33 feet
 Groundwater Elevation: 73.54 feet
 Water Column Height: 7.99 feet
 Purged Volume: — gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August 11/~~12~~ 2009
 Sampler: Lizzie Hightower
Ruchi Mathur

Not purged

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump not sampled

Color: No Yes Describe: Unknown
 Sheen: No Yes Describe: Free Product
 Odor: No Yes Describe: Strong Chem/Petro odor

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)

Notes: 0.14 feet of free product
F.P. Depth = 11.19 ft.



Well Name: MPE-5
 Casing Diameter: _____ inch
 Depth of Well: 19.53 feet
 Top of Casing Elevation: 84.64 feet
 Depth to Groundwater: 10.19 feet
 Groundwater Elevation: 74.45 feet
 Water Column Height: 9.34 feet
 Purged Volume: 4 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: August ~~11~~12, 2009
 Sampler: Lizzie Hightower
Eric Gessner-Wolke

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe: Grayish
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: Chem/Petro odor

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
12:34	started purging well						
12:35	2	6.43	17.06	0.36	1083	814	-114.9
12:36	4	6.41	17.11	0.19	1077	999	-117.0
12:41	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
13:00	0	2.85	0	0	0	26.7

Notes:

APPENDIX C

Chain of Custody Forms and Laboratory Reports



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 214208
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2511
Location : 3815 Broadway, Oakland
Level : II

Table with 2 columns: Sample ID and Lab ID. Rows include GW-2, GW-3, MW-11, LFR-1 through LFR-4, SOMA-1 through SOMA-4R, B-8R, B-10R, MPE-1 through MPE-5.

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

Signature: [Handwritten Signature]
Project Manager

Date: 08/24/2009

CASE NARRATIVE

Laboratory number: 214208
Client: SOMA Environmental Engineering Inc.
Project: 2511
Location: 3815 Broadway, Oakland
Request Date: 08/13/09
Samples Received: 08/13/09

This data package contains sample and QC results for sixteen water samples, requested for the above referenced project on 08/13/09. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

High surrogate recoveries were observed for bromofluorobenzene (FID) in many samples, due to interference from coeluting hydrocarbon peaks; the corresponding trifluorotoluene (FID) surrogate recoveries were within limits. No other analytical problems were encountered.

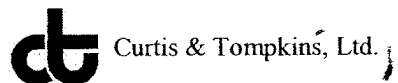
Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Dissolved Gases by GC/FID (RSK-175):

No analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Login # 214208 Date Received 8/13/09 Number of coolers 2
Client GOMX ENV. Project 3815 BROADWAY, OAKLAND, CA

Date Opened 8/13/09 By (print) M. VILLANUEVA (sign) [Signature]
Date Logged in 8/15/09 By (print) [Signature] (sign) [Signature]

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

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)
Bubble Wrap Foam blocks Bags None
Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation:
Type of ice used: Wet Blue/Gel None Temp(C)

Samples Received on ice & cold without a temperature blank

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

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Total Volatile Hydrocarbons

Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	08/13/09
Units:	ug/L		

Field ID: GW-2	Batch#: 154000
Type: SAMPLE	Sampled: 08/11/09
Lab ID: 214208-001	Analyzed: 08/18/09
Diln Fac: 1.000	

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	63-146
Bromofluorobenzene (FID)	104	70-140

Field ID: GW-3	Batch#: 154000
Type: SAMPLE	Sampled: 08/11/09
Lab ID: 214208-002	Analyzed: 08/18/09
Diln Fac: 1.000	

Analyte	Result	RL
Gasoline C7-C12	85 Y Z	50
Stoddard Solvent C7-C12	75 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	63-146
Bromofluorobenzene (FID)	102	70-140

Field ID: MW-11	Batch#: 154000
Type: SAMPLE	Sampled: 08/12/09
Lab ID: 214208-003	Analyzed: 08/18/09
Diln Fac: 1.000	

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	63-146
Bromofluorobenzene (FID)	96	70-140

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	08/13/09
Units:	ug/L		

Field ID:	LFR-4	Batch#:	154082
Type:	SAMPLE	Sampled:	08/11/09
Lab ID:	214208-007	Analyzed:	08/20/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	480 Y	50
Stoddard Solvent C7-C12	270 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	63-146
Bromofluorobenzene (FID)	109	70-140

Field ID:	SOMA-1	Batch#:	154000
Type:	SAMPLE	Sampled:	08/11/09
Lab ID:	214208-008	Analyzed:	08/19/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	53 Y	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	75	63-146
Bromofluorobenzene (FID)	98	70-140

Field ID:	SOMA-3	Batch#:	154082
Type:	SAMPLE	Sampled:	08/12/09
Lab ID:	214208-009	Analyzed:	08/20/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	130 Y	50
Stoddard Solvent C7-C12	76 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	78	63-146
Bromofluorobenzene (FID)	83	70-140

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	08/13/09
Units:	ug/L		

Field ID:	SOMA-4R	Batch#:	154082
Type:	SAMPLE	Sampled:	08/12/09
Lab ID:	214208-010	Analyzed:	08/21/09
Diln Fac:	20.00		

Analyte	Result	RL
Gasoline C7-C12	65,000 Y	1,000
Stoddard Solvent C7-C12	37,000	1,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	63-146
Bromofluorobenzene (FID)	232 *	70-140

Field ID:	B-8R	Batch#:	154082
Type:	SAMPLE	Sampled:	08/12/09
Lab ID:	214208-011	Analyzed:	08/21/09
Diln Fac:	5.000		

Analyte	Result	RL
Gasoline C7-C12	39,000 Y	250
Stoddard Solvent C7-C12	22,000	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	63-146
Bromofluorobenzene (FID)	397 *	70-140

Field ID:	B-10R	Batch#:	154082
Type:	SAMPLE	Sampled:	08/12/09
Lab ID:	214208-012	Analyzed:	08/21/09
Diln Fac:	20.00		

Analyte	Result	RL
Gasoline C7-C12	88,000 Y	1,000
Stoddard Solvent C7-C12	50,000	1,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	63-146
Bromofluorobenzene (FID)	270 *	70-140

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	08/13/09
Units:	ug/L		

Field ID:	MPE-1	Batch#:	154082
Type:	SAMPLE	Sampled:	08/12/09
Lab ID:	214208-013	Analyzed:	08/21/09
Diln Fac:	100.0		

Analyte	Result	RL
Gasoline C7-C12	49,000 Y	5,000
Stoddard Solvent C7-C12	28,000	5,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	63-146
Bromofluorobenzene (FID)	112	70-140

Field ID:	MPE-2	Diln Fac:	25.00
Type:	SAMPLE	Sampled:	08/12/09
Lab ID:	214208-014		

Analyte	Result	RL	Batch#	Analyzed
Gasoline C7-C12	200,000 Y	1,300	154034	08/20/09
Stoddard Solvent C7-C12	380,000	1,300	154082	08/21/09

Surrogate	%REC	Limits	Batch#	Analyzed
Trifluorotoluene (FID)	88	63-146	154034	08/20/09
Bromofluorobenzene (FID)	339 *	70-140	154034	08/20/09

Field ID:	MPE-4	Batch#:	154082
Type:	SAMPLE	Sampled:	08/12/09
Lab ID:	214208-015	Analyzed:	08/21/09
Diln Fac:	20.00		

Analyte	Result	RL
Gasoline C7-C12	130,000 Y	1,000
Stoddard Solvent C7-C12	71,000	1,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	63-146
Bromofluorobenzene (FID)	346 *	70-140

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons

Lab #: 214208	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8015B
Matrix: Water	Received: 08/13/09
Units: ug/L	

Field ID: MPE-5	Batch#: 154082
Type: SAMPLE	Sampled: 08/12/09
Lab ID: 214208-016	Analyzed: 08/21/09
Diln Fac: 10.00	

Analyte	Result	RL
Gasoline C7-C12	1,900 Y	500
Stoddard Solvent C7-C12	1,100 Y	500

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	63-146
Bromofluorobenzene (FID)	95	70-140

Type: BLANK	Batch#: 154000
Lab ID: QC508181	Analyzed: 08/18/09
Diln Fac: 1.000	

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	63-146
Bromofluorobenzene (FID)	96	70-140

Type: BLANK	Batch#: 154034
Lab ID: QC508320	Analyzed: 08/19/09
Diln Fac: 1.000	

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	63-146
Bromofluorobenzene (FID)	93	70-140

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons

Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Received:	08/13/09
Units:	ug/L		

Type:	BLANK	Batch#:	154082
Lab ID:	QC508538	Analyzed:	08/20/09
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	63-146
Bromofluorobenzene (FID)	92	70-140

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC508182	Batch#:	154000
Matrix:	Water	Analyzed:	08/18/09
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	908.8	91	76-121

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	63-146
Bromofluorobenzene (FID)	106	70-140

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Field ID:	GW-2	Batch#:	154000
MSS Lab ID:	214208-001	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/18/09
Diln Fac:	1.000		

Type: MS Lab ID: QC508183

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	23.82	2,000	1,659	82	66-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	63-146
Bromofluorobenzene (FID)	116	70-140

Type: MSD Lab ID: QC508184

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,882	93	66-120	13	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	63-146
Bromofluorobenzene (FID)	117	70-140

RPD= Relative Percent Difference

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC508321	Batch#:	154034
Matrix:	Water	Analyzed:	08/19/09
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	974.9	97	76-121

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	63-146
Bromofluorobenzene (FID)	103	70-140

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Field ID:	LFR-3	Batch#:	154034
MSS Lab ID:	214208-006	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	1.000		

Type: MS Lab ID: QC508322

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	21.65	2,000	1,813	90	66-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	63-146
Bromofluorobenzene (FID)	112	70-140

Type: MSD Lab ID: QC508323

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,738	86	66-120	4	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	63-146
Bromofluorobenzene (FID)	107	70-140

RPD= Relative Percent Difference

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC508539	Batch#:	154082
Matrix:	Water	Analyzed:	08/20/09
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,097	110	76-121

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	63-146
Bromofluorobenzene (FID)	102	70-140

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	154082
MSS Lab ID:	214185-010	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	1.000		

Type: MS Lab ID: QC508540

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	13.22	2,000	1,736	86	66-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	63-146
Bromofluorobenzene (FID)	108	70-140

Type: MSD Lab ID: QC508541

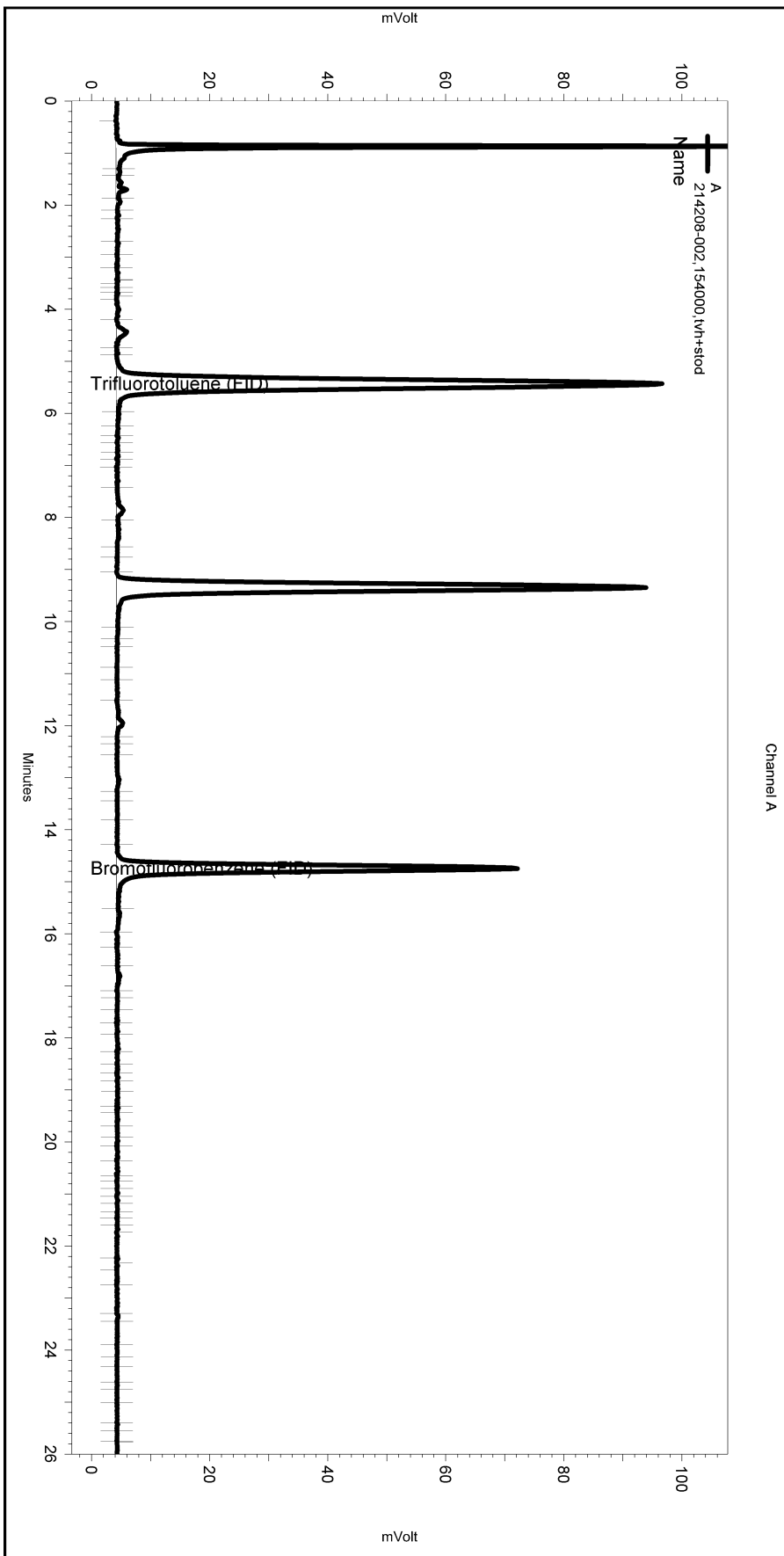
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,730	86	66-120	0	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	63-146
Bromofluorobenzene (FID)	105	70-140

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence230.seq
 Sample Name: 214208-002,154000,tvh+stod
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data230_014
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/18/2009 8:40:20 PM
 Analysis Date: 8/18/2009 9:09:04 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: b1.0



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Yes	Threshold	0	0	50

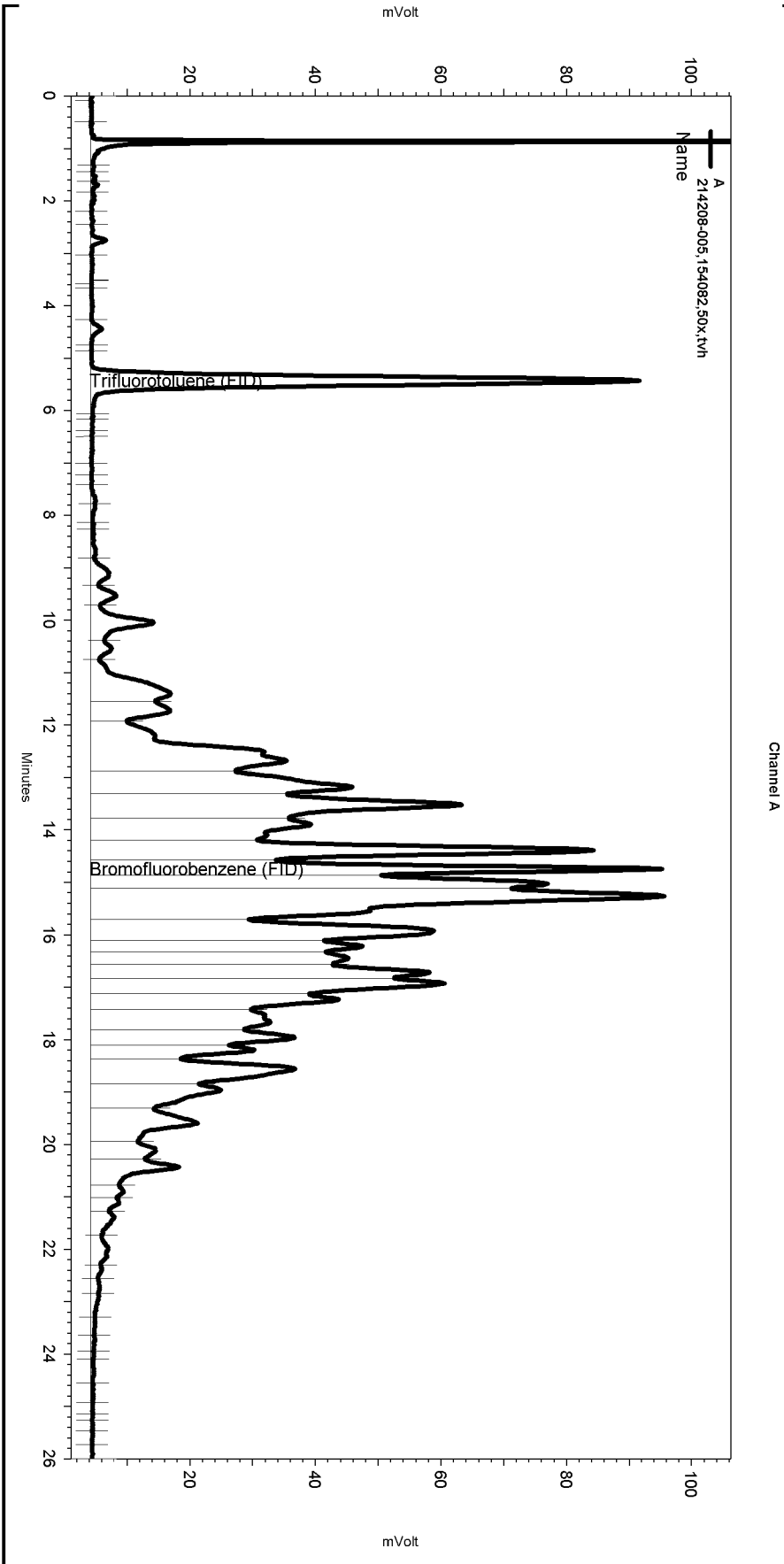
Manual Integration Fixes

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Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-005,154082,50x,tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_017
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/20/2009 11:55:29 PM
 Analysis Date: 8/21/2009 12:58:31 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: f1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

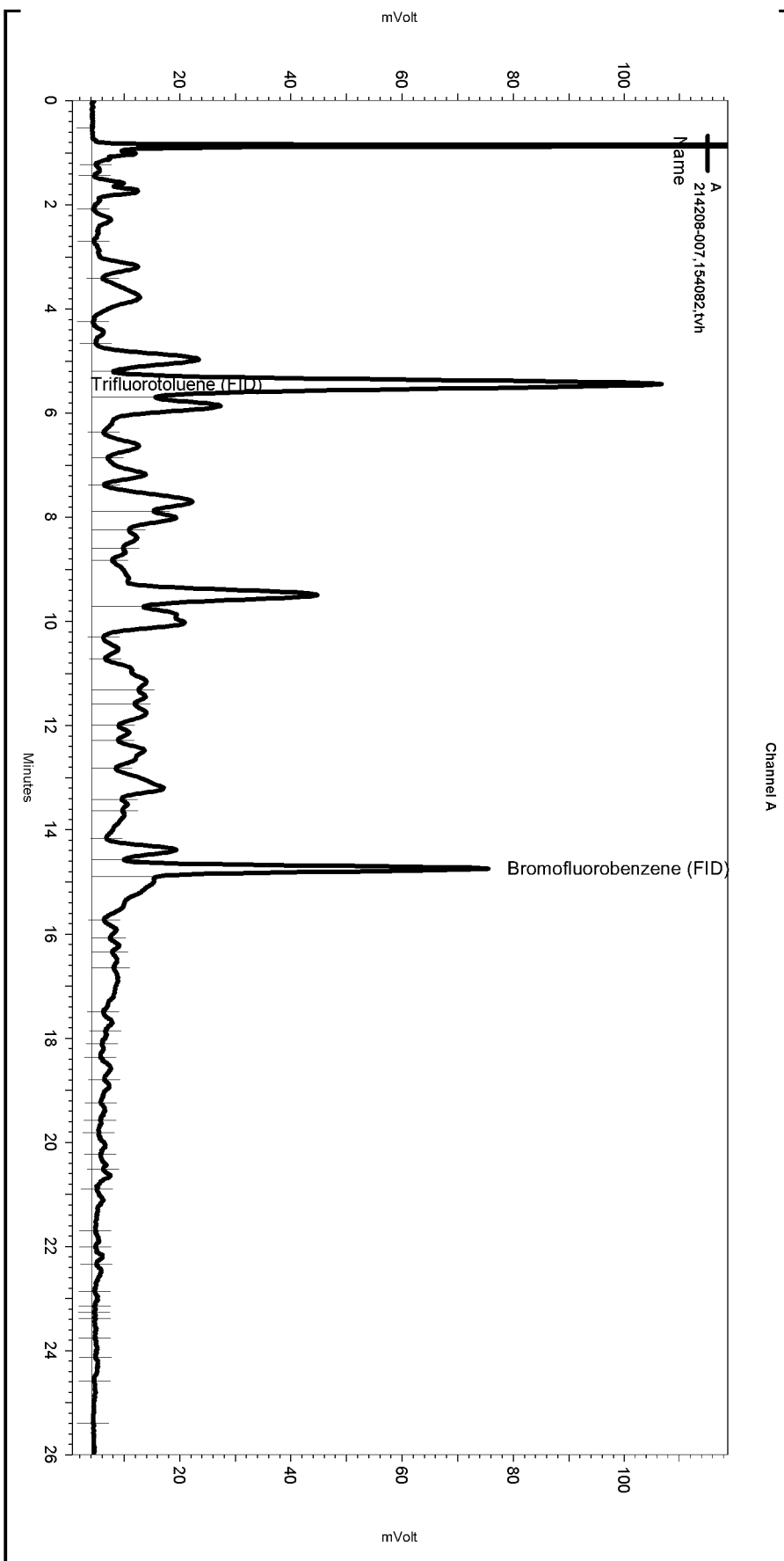
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-007,154082.tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_015
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/20/2009 10:44:29 PM
 Analysis Date: 8/21/2009 12:57:11 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: f1.0



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 Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

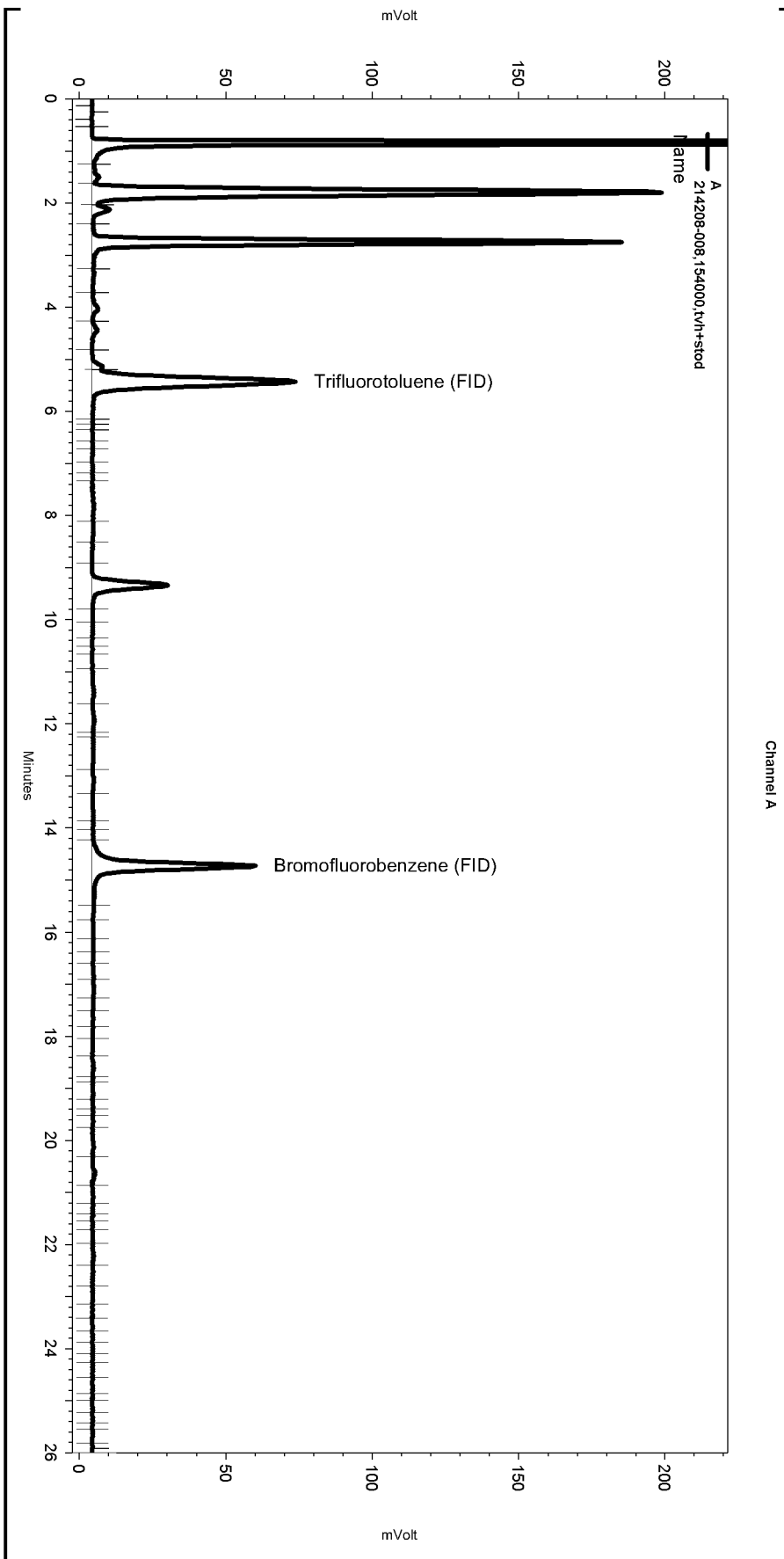
 Manual Integration Fixes

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Yes	Lowest Point Horizontal Baseli	0.591	25.968	0
Yes	Split Peak	14.908	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\230.seq
 Sample Name: 214208-008,154000,tvh+stod
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\230_025
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/19/2009 3:11:14 AM
 Analysis Date: 8/21/2009 1:32:18 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: g1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

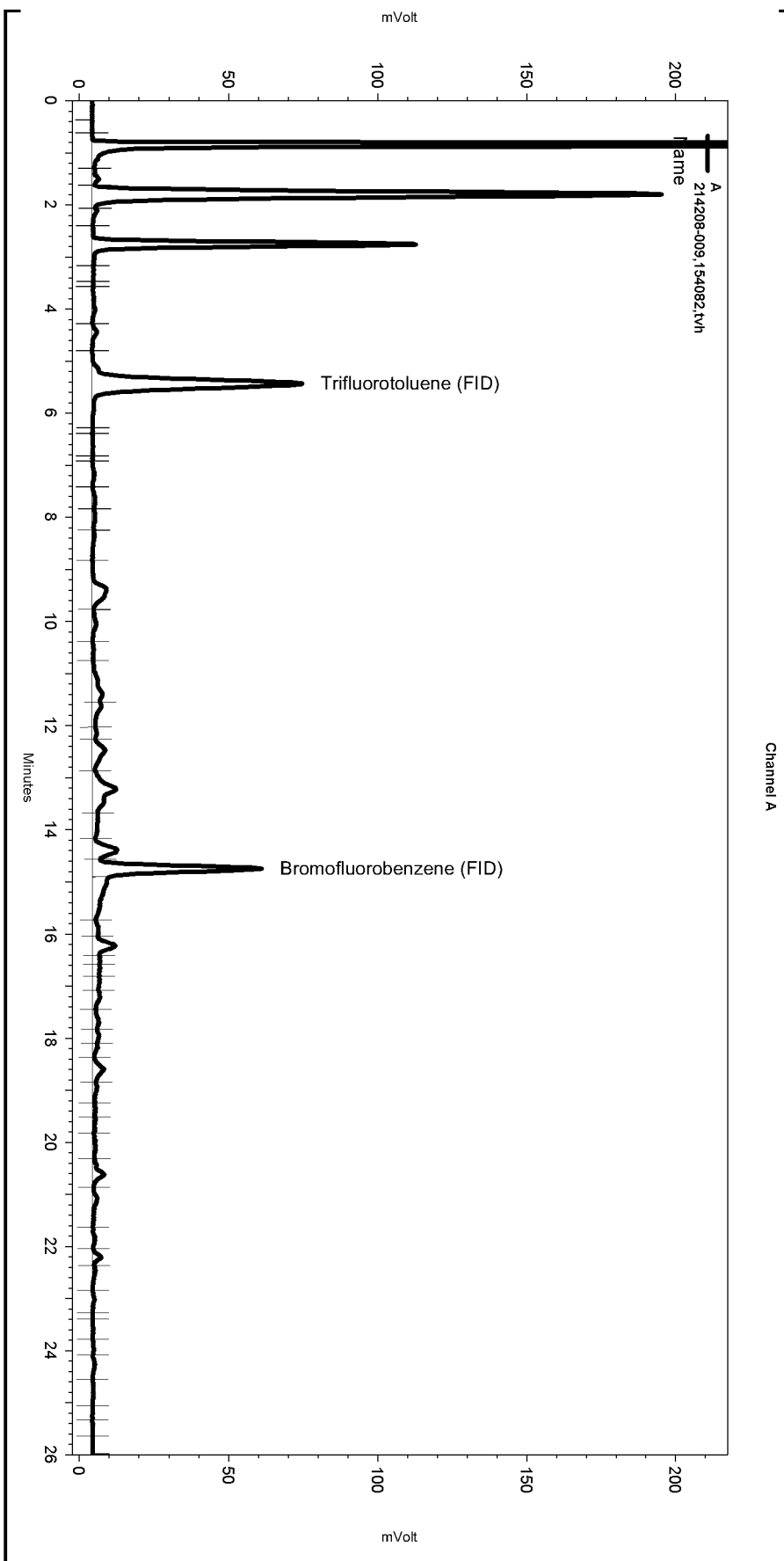
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\230_025

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Yes	Split Peak	5.203	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-009,154082.tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_016
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/20/2009 11:19:59 PM
 Analysis Date: 8/21/2009 12:58:27 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: f1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

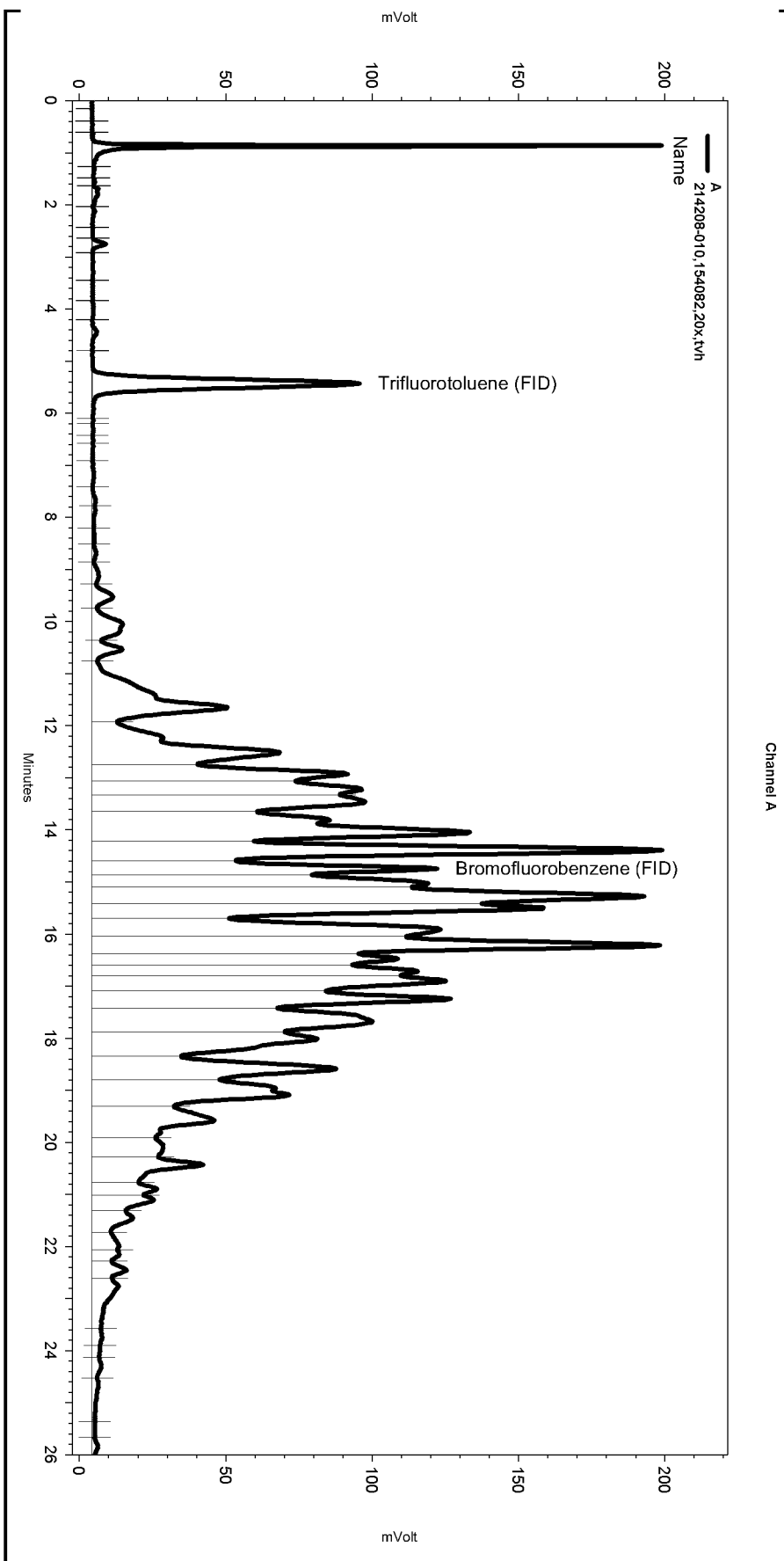
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	14.903	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-010,154082,20x,tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_023
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/21/2009 3:28:53 AM
 Analysis Date: 8/21/2009 1:05:14 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: g1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

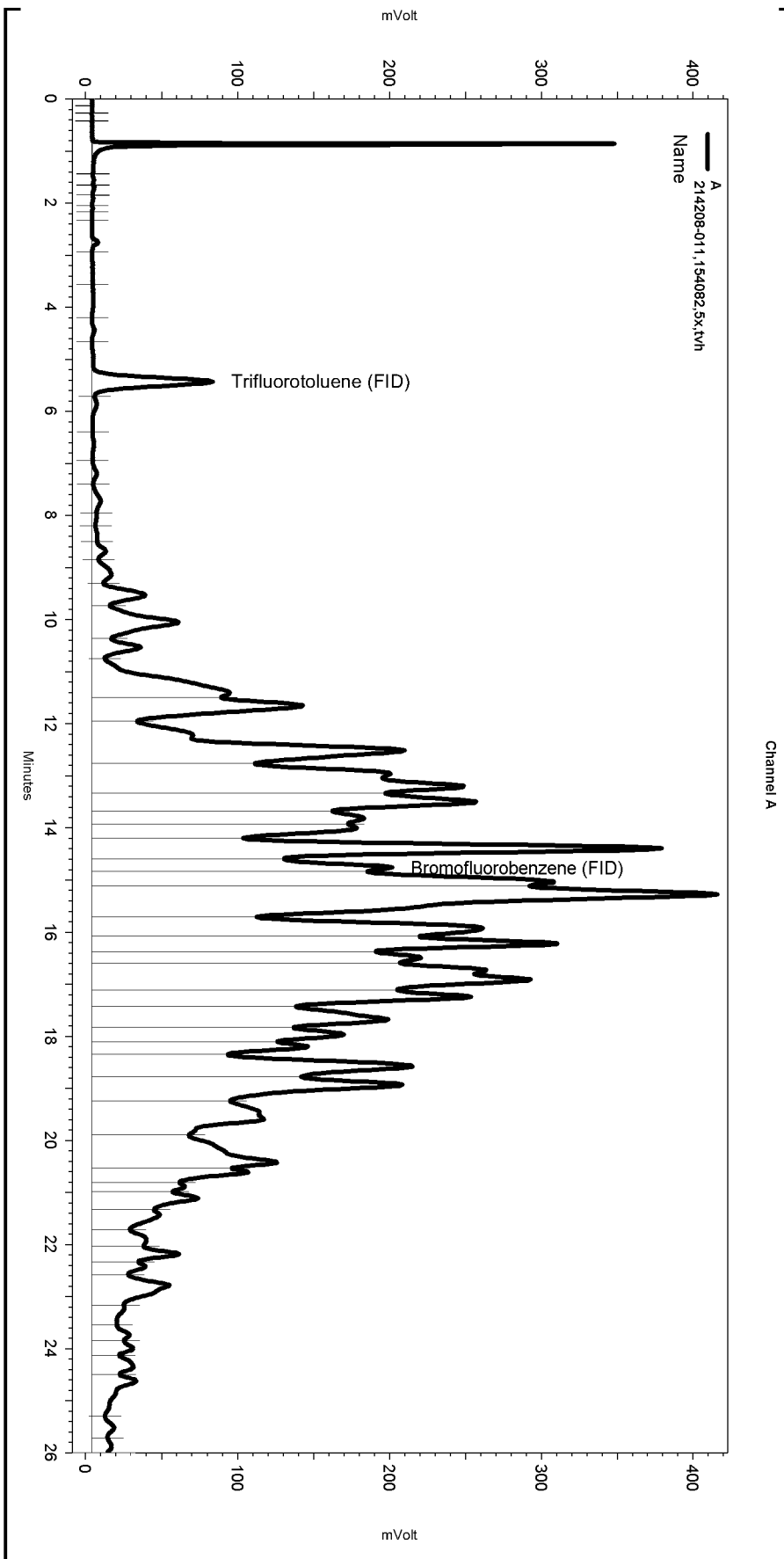
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-011,154082,5x,tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_024
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/21/2009 4:04:23 AM
 Analysis Date: 8/21/2009 1:05:18 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: f1.6



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Integration Events

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Yes	Threshold	0	0	50

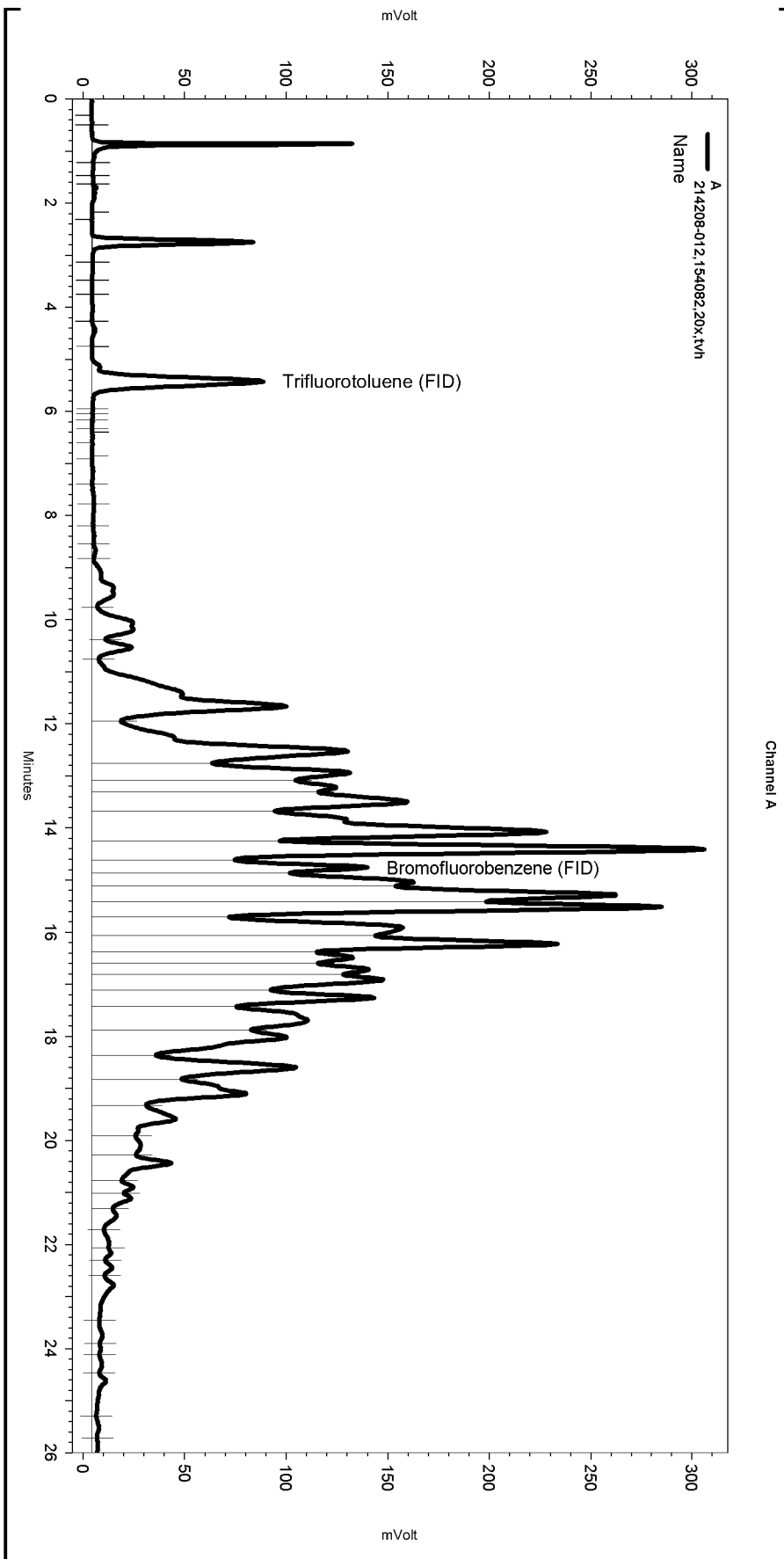
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_024

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-012,154082,20x,tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_025
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/21/2009 4:39:52 AM
 Analysis Date: 8/21/2009 1:10:25 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: h1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

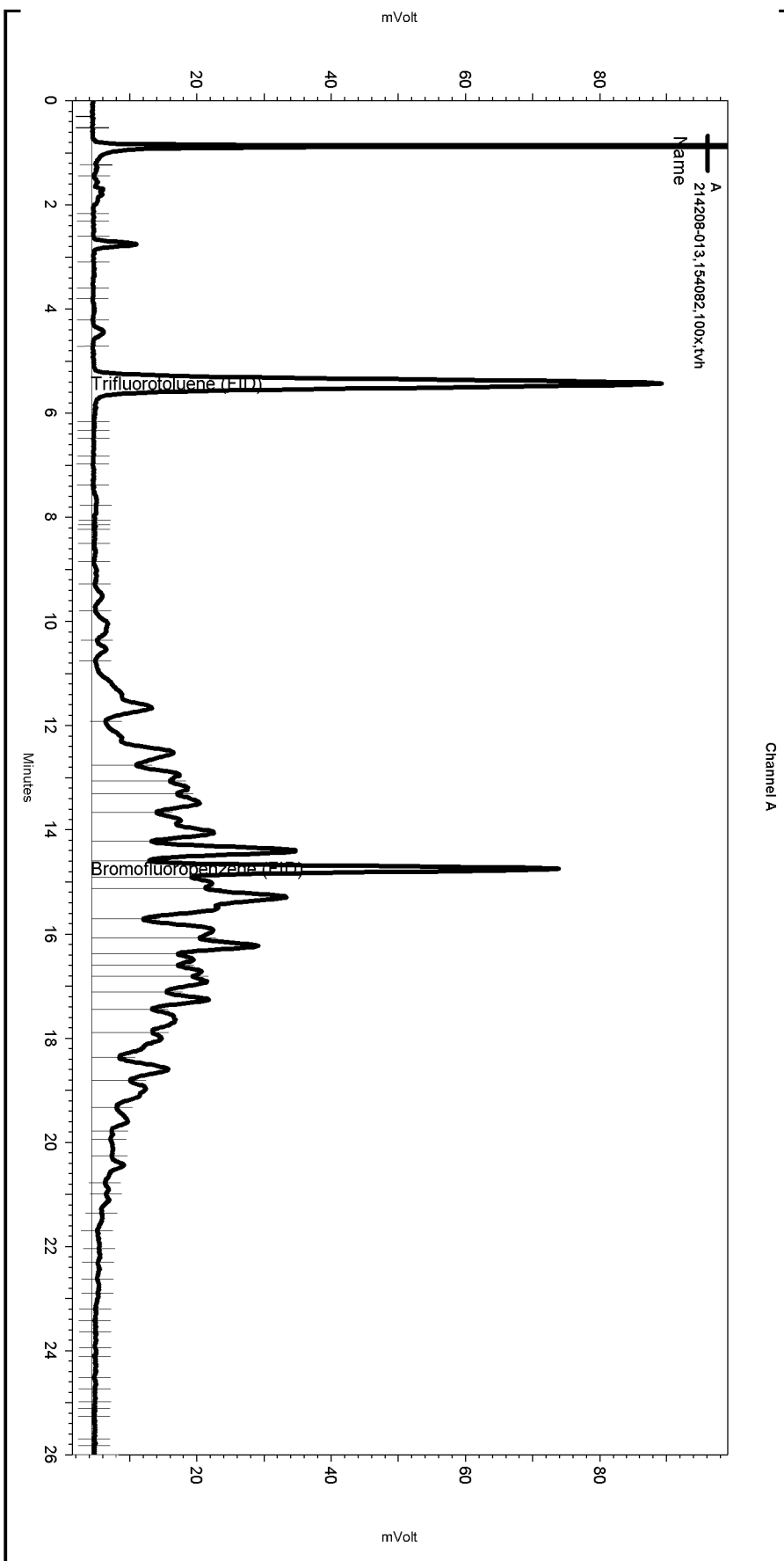
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-013,154082,100x,tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_026
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTX222.met

Software Version 3.1.7
 Run Date: 8/21/2009 5:15:23 AM
 Analysis Date: 8/21/2009 1:05:26 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: f1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

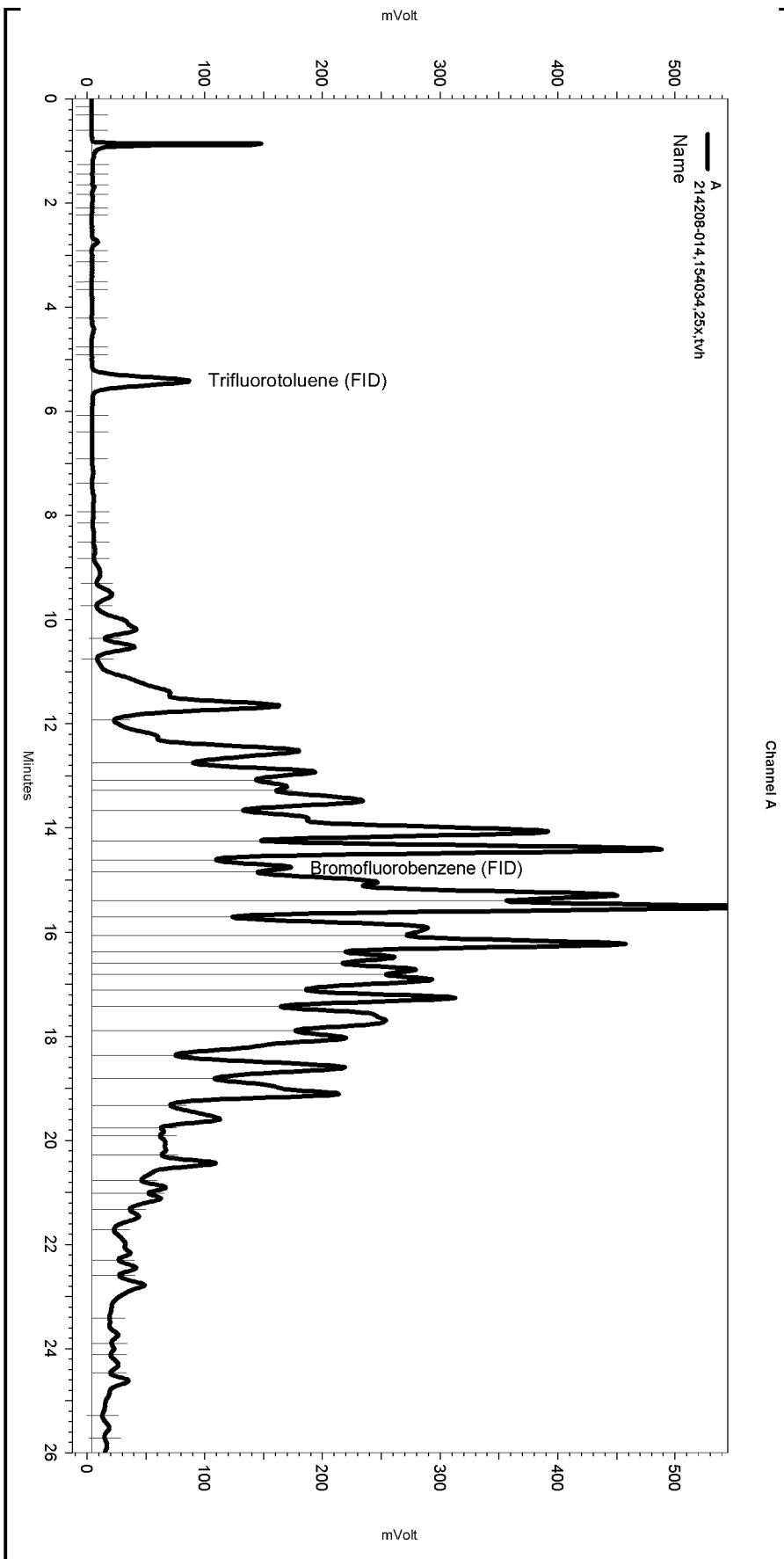
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.079	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\231.seq
 Sample Name: 214208-014,154034,25x,tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\231_025
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/20/2009 3:50:30 AM
 Analysis Date: 8/21/2009 1:30:08 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: e1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

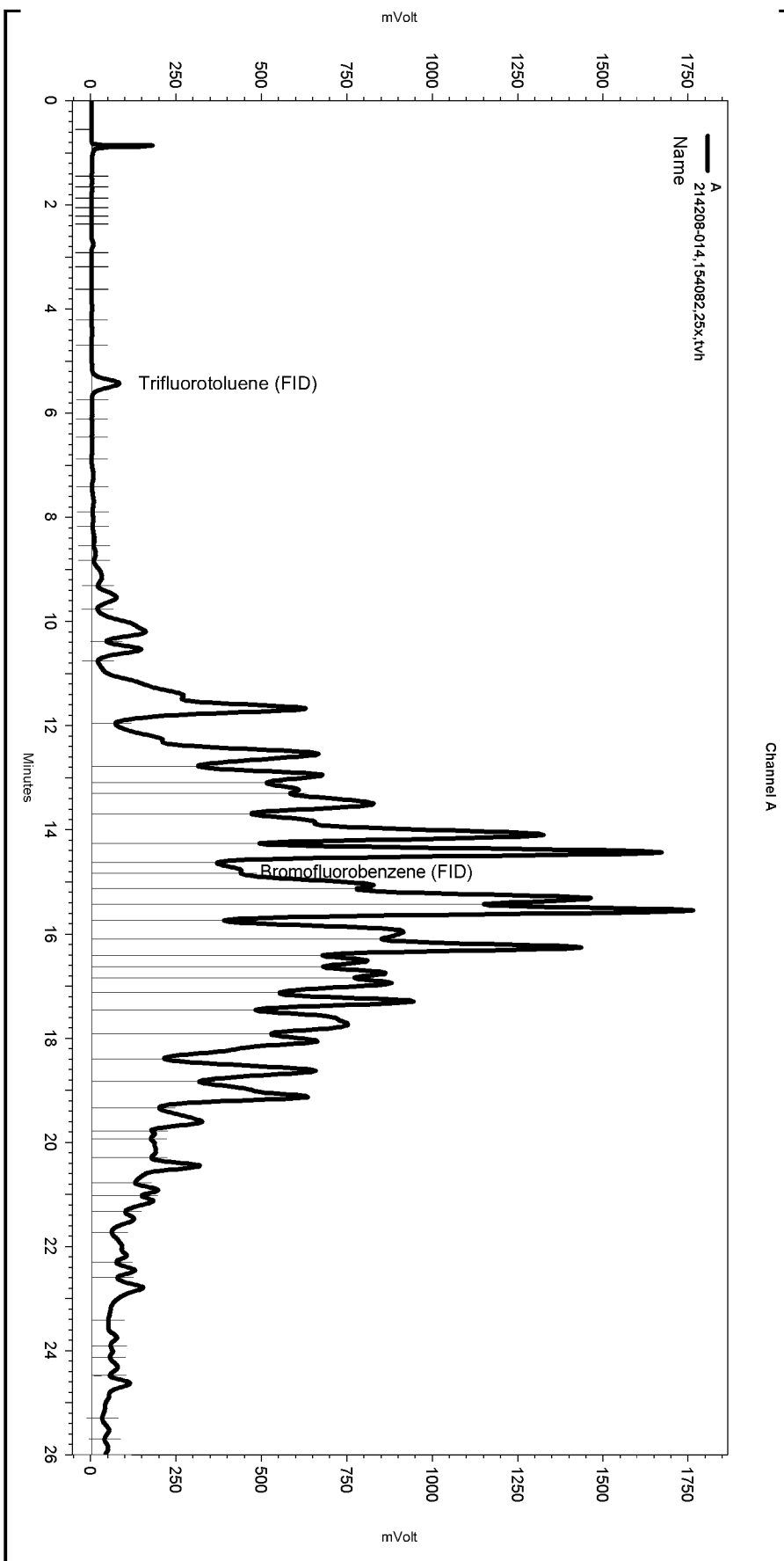
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\231_025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-014,154082,25x,tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_027
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/21/2009 5:50:56 AM
 Analysis Date: 8/21/2009 1:05:31 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: g1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

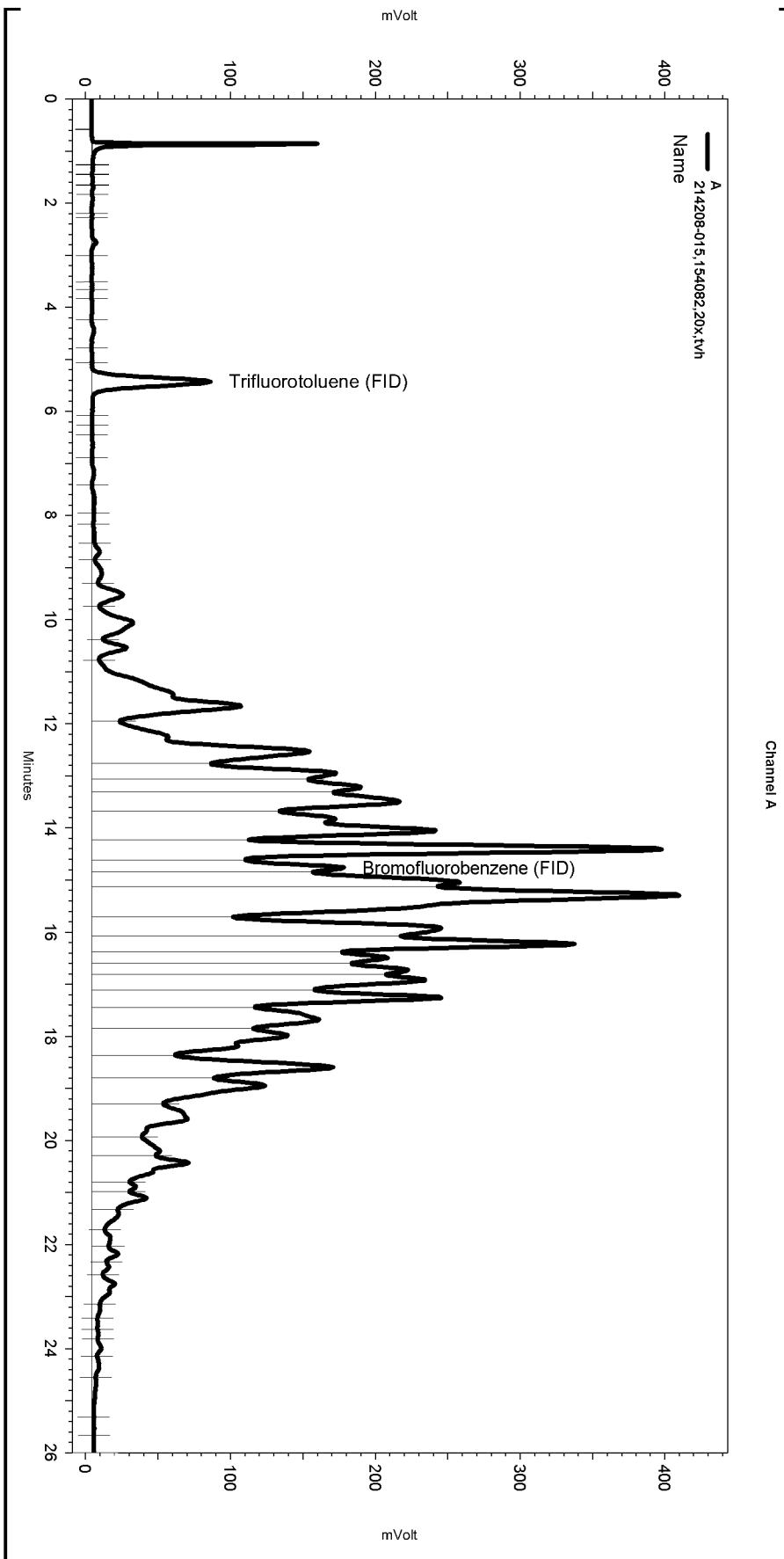
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	14.829	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-015,154082,20x,tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_028
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/21/2009 6:26:30 AM
 Analysis Date: 8/21/2009 1:05:35 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: h1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

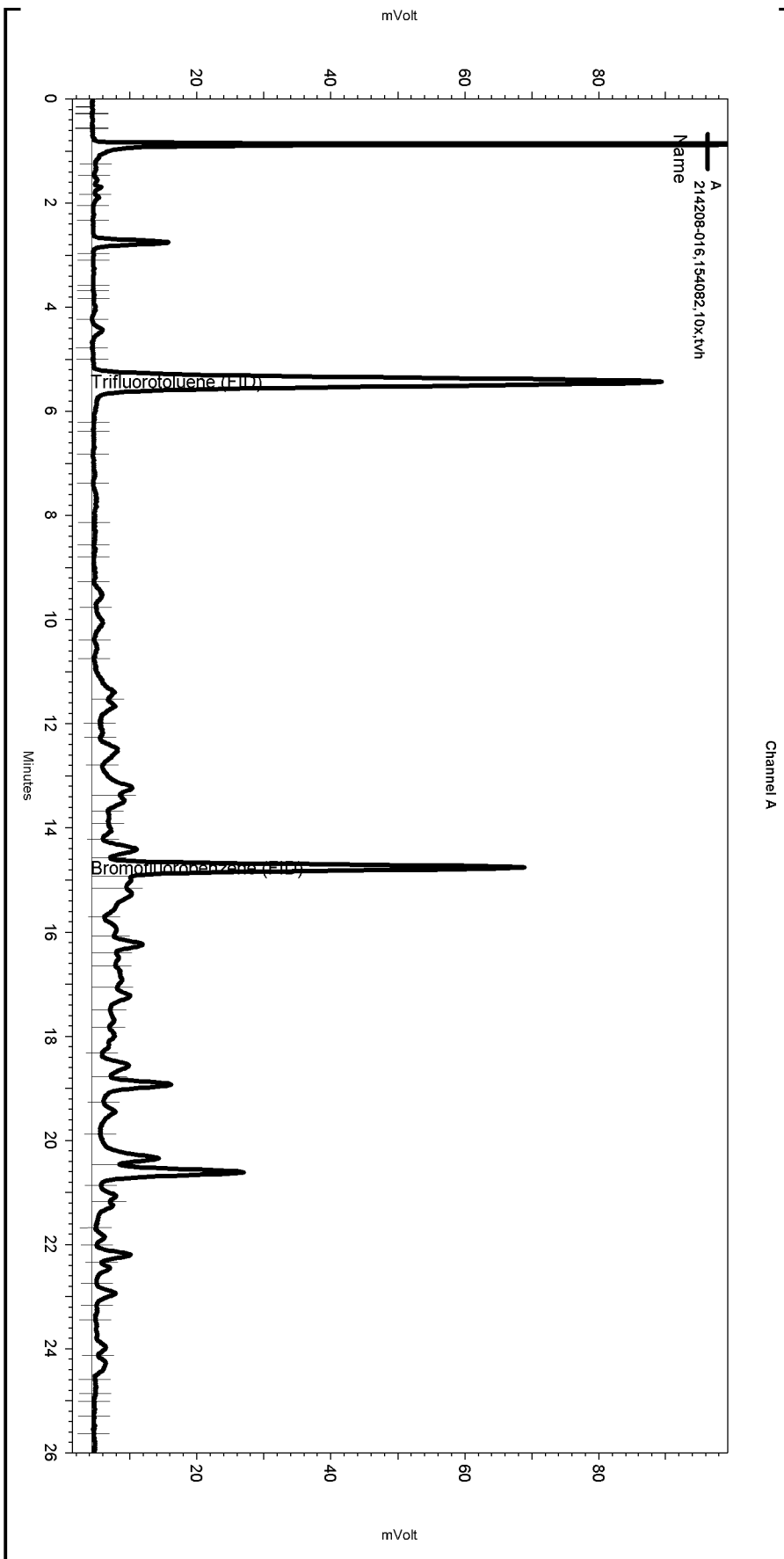
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_028

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Yes	Lowest Point Horizontal Baseli	0	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\232.seq
 Sample Name: 214208-016,154082,10x,tvh
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_029
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/21/2009 7:02:03 AM
 Analysis Date: 8/21/2009 1:05:39 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: f1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

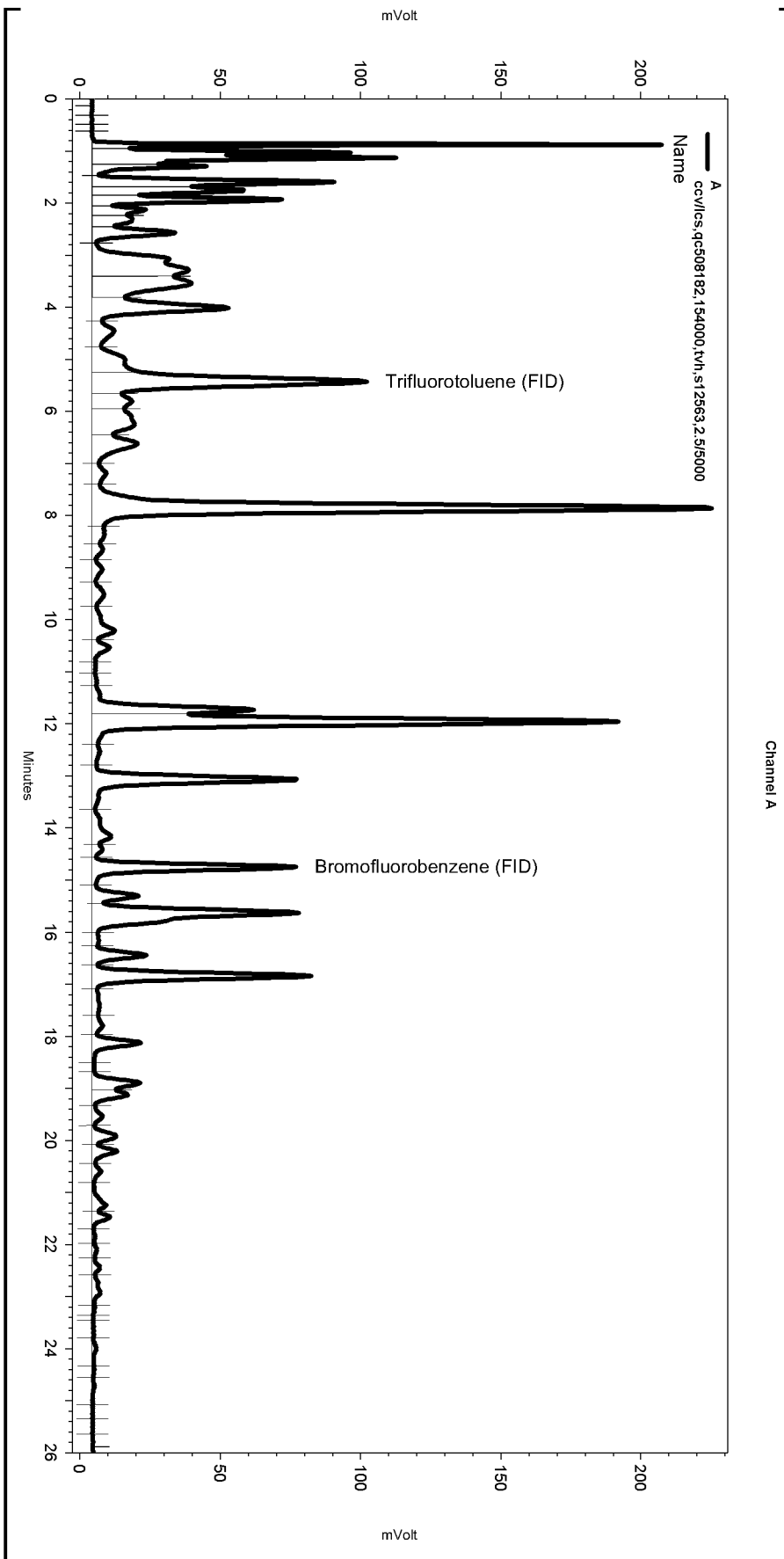
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\232_029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	14.929	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\230.seq
 Sample Name: ccv/lcs,qc508182,154000,tvh,s12563,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\230_005
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/18/2009 11:57:47 AM
 Analysis Date: 8/19/2009 8:22:58 AM
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 Vial & pH or Core ID: {Data Description}



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

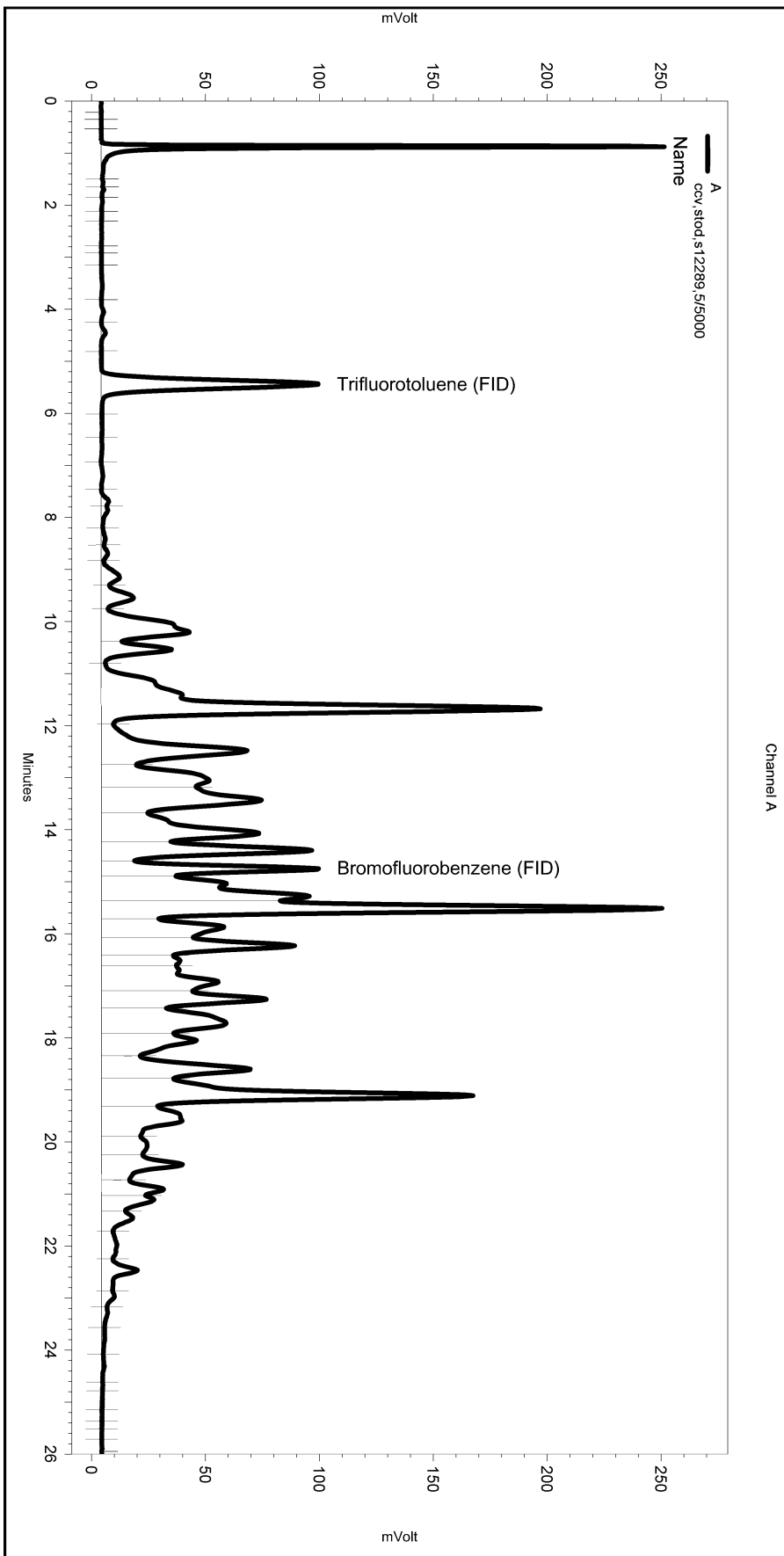
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\230_005

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	5.252	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence230.seq
 Sample Name: ccv,stod,s12289,5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data230_008
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe222.met

Software Version 3.1.7
 Run Date: 8/18/2009 4:29:43 PM
 Analysis Date: 8/18/2009 4:58:27 PM
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 Vial & pH or Core ID: {Data Description}



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\230_008_8D15.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-2	Batch#:	153929
Lab ID:	214208-001	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/18/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	3.1	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	30	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-2	Batch#:	153929
Lab ID:	214208-001	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/18/09
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-122
1,2-Dichloroethane-d4	107	77-137
Toluene-d8	93	80-120
Bromofluorobenzene	103	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-3	Sampled:	08/11/09
Lab ID:	214208-002	Received:	08/13/09
Matrix:	Water	Analyzed:	08/19/09
Units:	ug/L		

Analyte	Result	RL	Diln	Fac	Batch#
Freon 12	ND	1.0	1.000		154025
tert-Butyl Alcohol (TBA)	ND	10	1.000		154025
Chloromethane	ND	1.0	1.000		154025
Isopropyl Ether (DIPE)	ND	0.5	1.000		154025
Vinyl Chloride	ND	0.5	1.000		154025
Bromomethane	ND	1.0	1.000		154025
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	1.000		154025
Chloroethane	ND	1.0	1.000		154025
Methyl tert-Amyl Ether (TAME)	ND	0.5	1.000		154025
Trichlorofluoromethane	ND	1.0	1.000		154025
Acetone	ND	10	1.000		154025
Freon 113	ND	2.0	1.000		154025
1,1-Dichloroethene	ND	0.5	1.000		154025
Methylene Chloride	ND	10	1.000		154025
Carbon Disulfide	ND	0.5	1.000		154025
MTBE	ND	0.5	1.000		154025
trans-1,2-Dichloroethene	ND	0.5	1.000		154025
Vinyl Acetate	ND	10	1.000		154025
1,1-Dichloroethane	ND	0.5	1.000		154025
2-Butanone	ND	10	1.000		154025
cis-1,2-Dichloroethene	1.3	0.5	1.000		154025
2,2-Dichloropropane	ND	0.5	1.000		154025
Chloroform	ND	0.5	1.000		154025
Bromochloromethane	ND	0.5	1.000		154025
1,1,1-Trichloroethane	ND	0.5	1.000		154025
1,1-Dichloropropene	ND	0.5	1.000		154025
Carbon Tetrachloride	ND	0.5	1.000		154025
1,2-Dichloroethane	ND	0.5	1.000		154025
Benzene	ND	0.5	1.000		154025
Trichloroethene	5.8	0.5	1.000		154025
1,2-Dichloropropane	ND	0.5	1.000		154025
Bromodichloromethane	ND	0.5	1.000		154025
Dibromomethane	ND	0.5	1.000		154025
4-Methyl-2-Pentanone	ND	10	1.000		154025
cis-1,3-Dichloropropene	ND	0.5	1.000		154025
Toluene	ND	0.5	1.000		154025
trans-1,3-Dichloropropene	ND	0.5	1.000		154025
1,1,2-Trichloroethane	ND	0.5	1.000		154025
2-Hexanone	ND	10	1.000		154025
1,3-Dichloropropane	ND	0.5	1.000		154025
Tetrachloroethene	230	2.5	5.000		153975
Dibromochloromethane	ND	0.5	1.000		154025
1,2-Dibromoethane	ND	0.5	1.000		154025
Chlorobenzene	ND	0.5	1.000		154025
1,1,1,2-Tetrachloroethane	ND	0.5	1.000		154025
Ethylbenzene	ND	0.5	1.000		154025
m,p-Xylenes	ND	0.5	1.000		154025
o-Xylene	ND	0.5	1.000		154025
Styrene	ND	0.5	1.000		154025
Bromoform	ND	1.0	1.000		154025
Isopropylbenzene	ND	0.5	1.000		154025
1,1,2,2-Tetrachloroethane	ND	0.5	1.000		154025
1,2,3-Trichloropropane	ND	0.5	1.000		154025
Propylbenzene	ND	0.5	1.000		154025
Bromobenzene	ND	0.5	1.000		154025

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW-3	Sampled:	08/11/09
Lab ID:	214208-002	Received:	08/13/09
Matrix:	Water	Analyzed:	08/19/09
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#
1,3,5-Trimethylbenzene	ND	0.5	1.000	154025
2-Chlorotoluene	ND	0.5	1.000	154025
4-Chlorotoluene	ND	0.5	1.000	154025
tert-Butylbenzene	ND	0.5	1.000	154025
1,2,4-Trimethylbenzene	ND	0.5	1.000	154025
sec-Butylbenzene	ND	0.5	1.000	154025
para-Isopropyl Toluene	ND	0.5	1.000	154025
1,3-Dichlorobenzene	ND	0.5	1.000	154025
1,4-Dichlorobenzene	ND	0.5	1.000	154025
n-Butylbenzene	ND	0.5	1.000	154025
1,2-Dichlorobenzene	ND	0.5	1.000	154025
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	154025
1,2,4-Trichlorobenzene	ND	0.5	1.000	154025
Hexachlorobutadiene	ND	2.0	1.000	154025
Naphthalene	ND	2.0	1.000	154025
1,2,3-Trichlorobenzene	ND	0.5	1.000	154025

Surrogate	%REC	Limits	Diln Fac	Batch#
Dibromofluoromethane	111	80-122	1.000	154025
1,2-Dichloroethane-d4	107	77-137	1.000	154025
Toluene-d8	92	80-120	1.000	154025
Bromofluorobenzene	102	80-125	1.000	154025

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MW-11	Batch#:	153929
Lab ID:	214208-003	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/18/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MW-11	Batch#:	153929
Lab ID:	214208-003	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/18/09
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-122
1,2-Dichloroethane-d4	108	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	104	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-1	Batch#:	154025
Lab ID:	214208-004	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	2.8	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	11	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	0.5	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	0.8	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	39	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	82	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-1	Batch#:	154025
Lab ID:	214208-004	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-122
1,2-Dichloroethane-d4	106	77-137
Toluene-d8	91	80-120
Bromofluorobenzene	103	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-2	Batch#:	154025
Lab ID:	214208-005	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	1.667		

Analyte	Result	RL
Freon 12	ND	1.7
tert-Butyl Alcohol (TBA)	ND	17
Chloromethane	ND	1.7
Isopropyl Ether (DIPE)	ND	0.8
Vinyl Chloride	13	0.8
Bromomethane	ND	1.7
Ethyl tert-Butyl Ether (ETBE)	ND	0.8
Chloroethane	ND	1.7
Methyl tert-Amyl Ether (TAME)	ND	0.8
Trichlorofluoromethane	ND	1.7
Acetone	ND	17
Freon 113	ND	3.3
1,1-Dichloroethene	ND	0.8
Methylene Chloride	ND	17
Carbon Disulfide	ND	0.8
MTBE	ND	0.8
trans-1,2-Dichloroethene	ND	0.8
Vinyl Acetate	ND	17
1,1-Dichloroethane	ND	0.8
2-Butanone	ND	17
cis-1,2-Dichloroethene	120	0.8
2,2-Dichloropropane	ND	0.8
Chloroform	ND	0.8
Bromochloromethane	ND	0.8
1,1,1-Trichloroethane	ND	0.8
1,1-Dichloropropene	ND	0.8
Carbon Tetrachloride	ND	0.8
1,2-Dichloroethane	ND	0.8
Benzene	1.0	0.8
Trichloroethene	ND	0.8
1,2-Dichloropropane	ND	0.8
Bromodichloromethane	ND	0.8
Dibromomethane	ND	0.8
4-Methyl-2-Pentanone	ND	17
cis-1,3-Dichloropropene	ND	0.8
Toluene	ND	0.8
trans-1,3-Dichloropropene	ND	0.8
1,1,2-Trichloroethane	ND	0.8
2-Hexanone	ND	17
1,3-Dichloropropane	ND	0.8
Tetrachloroethene	ND	0.8
Dibromochloromethane	ND	0.8
1,2-Dibromoethane	ND	0.8
Chlorobenzene	ND	0.8
1,1,1,2-Tetrachloroethane	ND	0.8
Ethylbenzene	ND	0.8
m,p-Xylenes	ND	0.8
o-Xylene	ND	0.8
Styrene	ND	0.8
Bromoform	ND	1.7
Isopropylbenzene	ND	0.8
1,1,2,2-Tetrachloroethane	ND	0.8
1,2,3-Trichloropropane	ND	0.8
Propylbenzene	ND	0.8

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-2	Batch#:	154025
Lab ID:	214208-005	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	1.667		

Analyte	Result	RL
Bromobenzene	ND	0.8
1,3,5-Trimethylbenzene	ND	0.8
2-Chlorotoluene	ND	0.8
4-Chlorotoluene	ND	0.8
tert-Butylbenzene	0.8	0.8
1,2,4-Trimethylbenzene	ND	0.8
sec-Butylbenzene	1.1	0.8
para-Isopropyl Toluene	ND	0.8
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
n-Butylbenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.8
1,2-Dibromo-3-Chloropropane	ND	3.3
1,2,4-Trichlorobenzene	ND	0.8
Hexachlorobutadiene	ND	3.3
Naphthalene	ND	3.3
1,2,3-Trichlorobenzene	ND	0.8

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-122
1,2-Dichloroethane-d4	109	77-137
Toluene-d8	91	80-120
Bromofluorobenzene	103	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-3	Batch#:	153929
Lab ID:	214208-006	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/18/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	0.5	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-3	Batch#:	153929
Lab ID:	214208-006	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/18/09
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	115	80-122
1,2-Dichloroethane-d4	111	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	104	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-4	Batch#:	154025
Lab ID:	214208-007	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	0.9	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR-4	Batch#:	154025
Lab ID:	214208-007	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	0.6	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	0.6	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	104	77-137
Toluene-d8	90	80-120
Bromofluorobenzene	102	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-1	Batch#:	153975
Lab ID:	214208-008	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	5.000		

Analyte	Result	RL
Freon 12	ND	5.0
tert-Butyl Alcohol (TBA)	ND	50
Chloromethane	ND	5.0
Isopropyl Ether (DIPE)	4.3	2.5
Vinyl Chloride	ND	2.5
Bromomethane	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	2.5
Chloroethane	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	2.5
Trichlorofluoromethane	ND	5.0
Acetone	ND	50
Freon 113	ND	10
1,1-Dichloroethene	ND	2.5
Methylene Chloride	ND	50
Carbon Disulfide	ND	2.5
MTBE	430	2.5
trans-1,2-Dichloroethene	ND	2.5
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	2.5
2-Butanone	ND	50
cis-1,2-Dichloroethene	220	2.5
2,2-Dichloropropane	ND	2.5
Chloroform	ND	2.5
Bromochloromethane	ND	2.5
1,1,1-Trichloroethane	ND	2.5
1,1-Dichloropropene	ND	2.5
Carbon Tetrachloride	ND	2.5
1,2-Dichloroethane	ND	2.5
Benzene	ND	2.5
Trichloroethene	6.3	2.5
1,2-Dichloropropane	ND	2.5
Bromodichloromethane	ND	2.5
Dibromomethane	ND	2.5
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	2.5
Toluene	ND	2.5
trans-1,3-Dichloropropene	ND	2.5
1,1,2-Trichloroethane	ND	2.5
2-Hexanone	ND	50
1,3-Dichloropropane	ND	2.5
Tetrachloroethene	59	2.5
Dibromochloromethane	ND	2.5
1,2-Dibromoethane	ND	2.5
Chlorobenzene	ND	2.5
1,1,1,2-Tetrachloroethane	ND	2.5
Ethylbenzene	ND	2.5
m,p-Xylenes	ND	2.5
o-Xylene	ND	2.5
Styrene	ND	2.5
Bromoform	ND	5.0
Isopropylbenzene	ND	2.5
1,1,2,2-Tetrachloroethane	ND	2.5
1,2,3-Trichloropropane	ND	2.5
Propylbenzene	ND	2.5

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-1	Batch#:	153975
Lab ID:	214208-008	Sampled:	08/11/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	5.000		

Analyte	Result	RL
Bromobenzene	ND	2.5
1,3,5-Trimethylbenzene	ND	2.5
2-Chlorotoluene	ND	2.5
4-Chlorotoluene	ND	2.5
tert-Butylbenzene	ND	2.5
1,2,4-Trimethylbenzene	ND	2.5
sec-Butylbenzene	ND	2.5
para-Isopropyl Toluene	ND	2.5
1,3-Dichlorobenzene	ND	2.5
1,4-Dichlorobenzene	ND	2.5
n-Butylbenzene	ND	2.5
1,2-Dichlorobenzene	ND	2.5
1,2-Dibromo-3-Chloropropane	ND	10
1,2,4-Trichlorobenzene	ND	2.5
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	106	77-137
Toluene-d8	90	80-120
Bromofluorobenzene	101	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-3	Batch#:	154025
Lab ID:	214208-009	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	7.143		

Analyte	Result	RL
Freon 12	ND	7.1
tert-Butyl Alcohol (TBA)	ND	71
Chloromethane	ND	7.1
Isopropyl Ether (DIPE)	ND	3.6
Vinyl Chloride	ND	3.6
Bromomethane	ND	7.1
Ethyl tert-Butyl Ether (ETBE)	ND	3.6
Chloroethane	ND	7.1
Methyl tert-Amyl Ether (TAME)	ND	3.6
Trichlorofluoromethane	ND	7.1
Acetone	ND	71
Freon 113	ND	14
1,1-Dichloroethene	ND	3.6
Methylene Chloride	ND	71
Carbon Disulfide	ND	3.6
MTBE	430	3.6
trans-1,2-Dichloroethene	ND	3.6
Vinyl Acetate	ND	71
1,1-Dichloroethane	ND	3.6
2-Butanone	ND	71
cis-1,2-Dichloroethene	170	3.6
2,2-Dichloropropane	ND	3.6
Chloroform	ND	3.6
Bromochloromethane	ND	3.6
1,1,1-Trichloroethane	ND	3.6
1,1-Dichloropropene	ND	3.6
Carbon Tetrachloride	ND	3.6
1,2-Dichloroethane	ND	3.6
Benzene	ND	3.6
Trichloroethene	3.6	3.6
1,2-Dichloropropane	ND	3.6
Bromodichloromethane	ND	3.6
Dibromomethane	ND	3.6
4-Methyl-2-Pentanone	ND	71
cis-1,3-Dichloropropene	ND	3.6
Toluene	ND	3.6
trans-1,3-Dichloropropene	ND	3.6
1,1,2-Trichloroethane	ND	3.6
2-Hexanone	ND	71
1,3-Dichloropropane	ND	3.6
Tetrachloroethene	7.8	3.6
Dibromochloromethane	ND	3.6
1,2-Dibromoethane	ND	3.6
Chlorobenzene	ND	3.6
1,1,1,2-Tetrachloroethane	ND	3.6
Ethylbenzene	ND	3.6
m,p-Xylenes	ND	3.6
o-Xylene	ND	3.6
Styrene	ND	3.6
Bromoform	ND	7.1
Isopropylbenzene	ND	3.6
1,1,2,2-Tetrachloroethane	ND	3.6
1,2,3-Trichloropropane	ND	3.6
Propylbenzene	ND	3.6

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-3	Batch#:	154025
Lab ID:	214208-009	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	7.143		

Analyte	Result	RL
Bromobenzene	ND	3.6
1,3,5-Trimethylbenzene	ND	3.6
2-Chlorotoluene	ND	3.6
4-Chlorotoluene	ND	3.6
tert-Butylbenzene	ND	3.6
1,2,4-Trimethylbenzene	ND	3.6
sec-Butylbenzene	ND	3.6
para-Isopropyl Toluene	ND	3.6
1,3-Dichlorobenzene	ND	3.6
1,4-Dichlorobenzene	ND	3.6
n-Butylbenzene	ND	3.6
1,2-Dichlorobenzene	ND	3.6
1,2-Dibromo-3-Chloropropane	ND	14
1,2,4-Trichlorobenzene	ND	3.6
Hexachlorobutadiene	ND	14
Naphthalene	ND	14
1,2,3-Trichlorobenzene	ND	3.6

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	108	77-137
Toluene-d8	95	80-120
Bromofluorobenzene	102	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-4R	Batch#:	154025
Lab ID:	214208-010	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	2.000		

Analyte	Result	RL
Freon 12	ND	2.0
tert-Butyl Alcohol (TBA)	ND	20
Chloromethane	ND	2.0
Isopropyl Ether (DIPE)	10	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	2.0
Ethyl tert-Butyl Ether (ETBE)	ND	1.0
Chloroethane	ND	2.0
Methyl tert-Amyl Ether (TAME)	ND	1.0
Trichlorofluoromethane	ND	2.0
Acetone	ND	20
Freon 113	ND	4.0
1,1-Dichloroethene	ND	1.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	1.0
MTBE	80	1.0
trans-1,2-Dichloroethene	ND	1.0
Vinyl Acetate	ND	20
1,1-Dichloroethane	ND	1.0
2-Butanone	ND	20
cis-1,2-Dichloroethene	99	1.0
2,2-Dichloropropane	ND	1.0
Chloroform	ND	1.0
Bromochloromethane	ND	1.0
1,1,1-Trichloroethane	ND	1.0
1,1-Dichloropropene	ND	1.0
Carbon Tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Benzene	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	1.5	1.0
Bromodichloromethane	ND	1.0
Dibromomethane	ND	1.0
4-Methyl-2-Pentanone	ND	20
cis-1,3-Dichloropropene	ND	1.0
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
2-Hexanone	ND	20
1,3-Dichloropropane	ND	1.0
Tetrachloroethene	1.5	1.0
Dibromochloromethane	ND	1.0
1,2-Dibromoethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
m,p-Xylenes	ND	1.0
o-Xylene	1.9	1.0
Styrene	ND	1.0
Bromoform	ND	2.0
Isopropylbenzene	1.1	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,2,3-Trichloropropane	ND	1.0
Propylbenzene	1.8	1.0

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA-4R	Batch#:	154025
Lab ID:	214208-010	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	2.000		

Analyte	Result	RL
Bromobenzene	ND	1.0
1,3,5-Trimethylbenzene	5.4	1.0
2-Chlorotoluene	ND	1.0
4-Chlorotoluene	ND	1.0
tert-Butylbenzene	ND	1.0
1,2,4-Trimethylbenzene	13	1.0
sec-Butylbenzene	2.2	1.0
para-Isopropyl Toluene	4.4	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
n-Butylbenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	4.0
1,2,4-Trichlorobenzene	ND	1.0
Hexachlorobutadiene	ND	4.0
Naphthalene	ND	4.0
1,2,3-Trichlorobenzene	ND	1.0

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-122
1,2-Dichloroethane-d4	108	77-137
Toluene-d8	94	80-120
Bromofluorobenzene	101	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	B-8R	Batch#:	154025
Lab ID:	214208-011	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	27	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	B-8R	Batch#:	154025
Lab ID:	214208-011	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	2.3	0.5
1,2,4-Trimethylbenzene	0.6	0.5
sec-Butylbenzene	1.6	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	106	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	99	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	B-10R	Batch#:	153975
Lab ID:	214208-012	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	25.00		

Analyte	Result	RL
Freon 12	ND	25
tert-Butyl Alcohol (TBA)	ND	250
Chloromethane	ND	25
Isopropyl Ether (DIPE)	ND	13
Vinyl Chloride	ND	13
Bromomethane	ND	25
Ethyl tert-Butyl Ether (ETBE)	ND	13
Chloroethane	ND	25
Methyl tert-Amyl Ether (TAME)	ND	13
Trichlorofluoromethane	ND	25
Acetone	ND	250
Freon 113	ND	50
1,1-Dichloroethene	ND	13
Methylene Chloride	ND	250
Carbon Disulfide	ND	13
MTBE	67	13
trans-1,2-Dichloroethene	ND	13
Vinyl Acetate	ND	250
1,1-Dichloroethane	ND	13
2-Butanone	ND	250
cis-1,2-Dichloroethene	1,800	13
2,2-Dichloropropane	ND	13
Chloroform	ND	13
Bromochloromethane	ND	13
1,1,1-Trichloroethane	ND	13
1,1-Dichloropropene	ND	13
Carbon Tetrachloride	ND	13
1,2-Dichloroethane	ND	13
Benzene	ND	13
Trichloroethene	120	13
1,2-Dichloropropane	ND	13
Bromodichloromethane	ND	13
Dibromomethane	ND	13
4-Methyl-2-Pentanone	ND	250
cis-1,3-Dichloropropene	ND	13
Toluene	ND	13
trans-1,3-Dichloropropene	ND	13
1,1,2-Trichloroethane	ND	13
2-Hexanone	ND	250
1,3-Dichloropropane	ND	13
Tetrachloroethene	260	13
Dibromochloromethane	ND	13
1,2-Dibromoethane	ND	13
Chlorobenzene	ND	13
1,1,1,2-Tetrachloroethane	ND	13
Ethylbenzene	ND	13
m,p-Xylenes	ND	13
o-Xylene	ND	13
Styrene	ND	13
Bromoform	ND	25
Isopropylbenzene	ND	13
1,1,2,2-Tetrachloroethane	ND	13
1,2,3-Trichloropropane	ND	13
Propylbenzene	ND	13

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	B-10R	Batch#:	153975
Lab ID:	214208-012	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	25.00		

Analyte	Result	RL
Bromobenzene	ND	13
1,3,5-Trimethylbenzene	ND	13
2-Chlorotoluene	ND	13
4-Chlorotoluene	ND	13
tert-Butylbenzene	ND	13
1,2,4-Trimethylbenzene	13	13
sec-Butylbenzene	ND	13
para-Isopropyl Toluene	ND	13
1,3-Dichlorobenzene	ND	13
1,4-Dichlorobenzene	ND	13
n-Butylbenzene	ND	13
1,2-Dichlorobenzene	ND	13
1,2-Dibromo-3-Chloropropane	ND	50
1,2,4-Trichlorobenzene	ND	13
Hexachlorobutadiene	ND	50
Naphthalene	ND	50
1,2,3-Trichlorobenzene	ND	13

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	108	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	102	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MPE-1	Units:	ug/L
Lab ID:	214208-013	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	1.0	1.000	154025	08/20/09
tert-Butyl Alcohol (TBA)	25	10	1.000	154025	08/20/09
Chloromethane	ND	1.0	1.000	154025	08/20/09
Isopropyl Ether (DIPE)	ND	0.5	1.000	154025	08/20/09
Vinyl Chloride	ND	0.5	1.000	154025	08/20/09
Bromomethane	ND	1.0	1.000	154025	08/20/09
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	1.000	154025	08/20/09
Chloroethane	ND	1.0	1.000	154025	08/20/09
Methyl tert-Amyl Ether (TAME)	ND	0.5	1.000	154025	08/20/09
Trichlorofluoromethane	ND	1.0	1.000	154025	08/20/09
Acetone	ND	10	1.000	154025	08/20/09
Freon 113	ND	2.0	1.000	154025	08/20/09
1,1-Dichloroethene	ND	0.5	1.000	154025	08/20/09
Methylene Chloride	ND	10	1.000	154025	08/20/09
Carbon Disulfide	ND	0.5	1.000	154025	08/20/09
MTBE	260	5.0	10.00	154109	08/21/09
trans-1,2-Dichloroethene	5.3	0.5	1.000	154025	08/20/09
Vinyl Acetate	ND	10	1.000	154025	08/20/09
1,1-Dichloroethane	ND	0.5	1.000	154025	08/20/09
2-Butanone	ND	10	1.000	154025	08/20/09
cis-1,2-Dichloroethene	880	5.0	10.00	154109	08/21/09
2,2-Dichloropropane	ND	0.5	1.000	154025	08/20/09
Chloroform	ND	0.5	1.000	154025	08/20/09
Bromochloromethane	ND	0.5	1.000	154025	08/20/09
1,1,1-Trichloroethane	ND	0.5	1.000	154025	08/20/09
1,1-Dichloropropene	ND	0.5	1.000	154025	08/20/09
Carbon Tetrachloride	ND	0.5	1.000	154025	08/20/09
1,2-Dichloroethane	ND	0.5	1.000	154025	08/20/09
Benzene	ND	0.5	1.000	154025	08/20/09
Trichloroethene	12	0.5	1.000	154025	08/20/09
1,2-Dichloropropane	ND	0.5	1.000	154025	08/20/09
Bromodichloromethane	ND	0.5	1.000	154025	08/20/09
Dibromomethane	ND	0.5	1.000	154025	08/20/09
4-Methyl-2-Pentanone	ND	10	1.000	154025	08/20/09
cis-1,3-Dichloropropene	ND	0.5	1.000	154025	08/20/09
Toluene	1.1	0.5	1.000	154025	08/20/09
trans-1,3-Dichloropropene	ND	0.5	1.000	154025	08/20/09
1,1,2-Trichloroethane	ND	0.5	1.000	154025	08/20/09
2-Hexanone	ND	10	1.000	154025	08/20/09

ND= Not Detected

RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MPE-1	Units:	ug/L
Lab ID:	214208-013	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,3-Dichloropropane	ND	0.5	1.000	154025	08/20/09
Tetrachloroethene	3.9	0.5	1.000	154025	08/20/09
Dibromochloromethane	ND	0.5	1.000	154025	08/20/09
1,2-Dibromoethane	ND	0.5	1.000	154025	08/20/09
Chlorobenzene	ND	0.5	1.000	154025	08/20/09
1,1,1,2-Tetrachloroethane	ND	0.5	1.000	154025	08/20/09
Ethylbenzene	ND	0.5	1.000	154025	08/20/09
m,p-Xylenes	1.3	0.5	1.000	154025	08/20/09
o-Xylene	1.6	0.5	1.000	154025	08/20/09
Styrene	ND	0.5	1.000	154025	08/20/09
Bromoform	ND	1.0	1.000	154025	08/20/09
Isopropylbenzene	ND	0.5	1.000	154025	08/20/09
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	154025	08/20/09
1,2,3-Trichloropropane	ND	0.5	1.000	154025	08/20/09
Propylbenzene	ND	0.5	1.000	154025	08/20/09
Bromobenzene	ND	0.5	1.000	154025	08/20/09
1,3,5-Trimethylbenzene	14	0.5	1.000	154025	08/20/09
2-Chlorotoluene	ND	0.5	1.000	154025	08/20/09
4-Chlorotoluene	ND	0.5	1.000	154025	08/20/09
tert-Butylbenzene	1.7	0.5	1.000	154025	08/20/09
1,2,4-Trimethylbenzene	19	0.5	1.000	154025	08/20/09
sec-Butylbenzene	1.9	0.5	1.000	154025	08/20/09
para-Isopropyl Toluene	3.3	0.5	1.000	154025	08/20/09
1,3-Dichlorobenzene	ND	0.5	1.000	154025	08/20/09
1,4-Dichlorobenzene	ND	0.5	1.000	154025	08/20/09
n-Butylbenzene	ND	0.5	1.000	154025	08/20/09
1,2-Dichlorobenzene	ND	0.5	1.000	154025	08/20/09
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	154025	08/20/09
1,2,4-Trichlorobenzene	ND	0.5	1.000	154025	08/20/09
Hexachlorobutadiene	ND	2.0	1.000	154025	08/20/09
Naphthalene	ND	2.0	1.000	154025	08/20/09
1,2,3-Trichlorobenzene	ND	0.5	1.000	154025	08/20/09

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	110	80-122	1.000	154025	08/20/09
1,2-Dichloroethane-d4	107	77-137	1.000	154025	08/20/09
Toluene-d8	92	80-120	1.000	154025	08/20/09
Bromofluorobenzene	98	80-125	1.000	154025	08/20/09

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MPE-2	Batch#:	154025
Lab ID:	214208-014	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	2.500		

Analyte	Result	RL
Freon 12	ND	2.5
tert-Butyl Alcohol (TBA)	ND	25
Chloromethane	ND	2.5
Isopropyl Ether (DIPE)	1.3	1.3
Vinyl Chloride	ND	1.3
Bromomethane	ND	2.5
Ethyl tert-Butyl Ether (ETBE)	ND	1.3
Chloroethane	ND	2.5
Methyl tert-Amyl Ether (TAME)	ND	1.3
Trichlorofluoromethane	ND	2.5
Acetone	26	25
Freon 113	ND	5.0
1,1-Dichloroethene	ND	1.3
Methylene Chloride	ND	25
Carbon Disulfide	ND	1.3
MTBE	15	1.3
trans-1,2-Dichloroethene	1.3	1.3
Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	1.3
2-Butanone	ND	25
cis-1,2-Dichloroethene	150	1.3
2,2-Dichloropropane	ND	1.3
Chloroform	ND	1.3
Bromochloromethane	ND	1.3
1,1,1-Trichloroethane	ND	1.3
1,1-Dichloropropene	ND	1.3
Carbon Tetrachloride	ND	1.3
1,2-Dichloroethane	ND	1.3
Benzene	1.6	1.3
Trichloroethene	ND	1.3
1,2-Dichloropropane	1.6	1.3
Bromodichloromethane	ND	1.3
Dibromomethane	ND	1.3
4-Methyl-2-Pentanone	ND	25
cis-1,3-Dichloropropene	ND	1.3
Toluene	5.3	1.3
trans-1,3-Dichloropropene	ND	1.3
1,1,2-Trichloroethane	ND	1.3
2-Hexanone	ND	25
1,3-Dichloropropane	ND	1.3
Tetrachloroethene	ND	1.3
Dibromochloromethane	ND	1.3
1,2-Dibromoethane	ND	1.3
Chlorobenzene	ND	1.3
1,1,1,2-Tetrachloroethane	ND	1.3
Ethylbenzene	1.3	1.3
m,p-Xylenes	7.4	1.3
o-Xylene	13	1.3
Styrene	ND	1.3
Bromoform	ND	2.5
Isopropylbenzene	5.2	1.3
1,1,2,2-Tetrachloroethane	ND	1.3
1,2,3-Trichloropropane	ND	1.3
Propylbenzene	7.8	1.3

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MPE-2	Batch#:	154025
Lab ID:	214208-014	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	2.500		

Analyte	Result	RL
Bromobenzene	ND	1.3
1,3,5-Trimethylbenzene	55	1.3
2-Chlorotoluene	ND	1.3
4-Chlorotoluene	ND	1.3
tert-Butylbenzene	1.8	1.3
1,2,4-Trimethylbenzene	68	1.3
sec-Butylbenzene	11	1.3
para-Isopropyl Toluene	9.6	1.3
1,3-Dichlorobenzene	ND	1.3
1,4-Dichlorobenzene	ND	1.3
n-Butylbenzene	ND	1.3
1,2-Dichlorobenzene	ND	1.3
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	1.3
Hexachlorobutadiene	ND	5.0
Naphthalene	18	5.0
1,2,3-Trichlorobenzene	ND	1.3

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	107	77-137
Toluene-d8	93	80-120
Bromofluorobenzene	102	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MPE-4	Batch#:	154062
Lab ID:	214208-015	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/21/09
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	11	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	12	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	4.3	0.5
trans-1,2-Dichloroethene	2.1	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	11	10
cis-1,2-Dichloroethene	83	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	0.6	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	1.0	0.5
o-Xylene	2.6	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	1.4	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	2.1	0.5

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MPE-4	Batch#:	154062
Lab ID:	214208-015	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/21/09
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	4.6	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	1.9	0.5
1,2,4-Trimethylbenzene	17	0.5
sec-Butylbenzene	4.8	0.5
para-Isopropyl Toluene	3.8	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	6.0	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	107	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	103	80-125

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MPE-5	Batch#:	154025
Lab ID:	214208-016	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	2.000		

Analyte	Result	RL
Freon 12	ND	2.0
tert-Butyl Alcohol (TBA)	ND	20
Chloromethane	ND	2.0
Isopropyl Ether (DIPE)	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	2.0
Ethyl tert-Butyl Ether (ETBE)	ND	1.0
Chloroethane	ND	2.0
Methyl tert-Amyl Ether (TAME)	ND	1.0
Trichlorofluoromethane	ND	2.0
Acetone	ND	20
Freon 113	ND	4.0
1,1-Dichloroethene	ND	1.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	1.0
MTBE	3.2	1.0
trans-1,2-Dichloroethene	4.5	1.0
Vinyl Acetate	ND	20
1,1-Dichloroethane	ND	1.0
2-Butanone	ND	20
cis-1,2-Dichloroethene	140	1.0
2,2-Dichloropropane	ND	1.0
Chloroform	ND	1.0
Bromochloromethane	ND	1.0
1,1,1-Trichloroethane	ND	1.0
1,1-Dichloropropene	ND	1.0
Carbon Tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Benzene	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
Dibromomethane	ND	1.0
4-Methyl-2-Pentanone	ND	20
cis-1,3-Dichloropropene	ND	1.0
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
2-Hexanone	ND	20
1,3-Dichloropropane	ND	1.0
Tetrachloroethene	ND	1.0
Dibromochloromethane	ND	1.0
1,2-Dibromoethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
m,p-Xylenes	ND	1.0
o-Xylene	ND	1.0
Styrene	ND	1.0
Bromoform	ND	2.0
Isopropylbenzene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,2,3-Trichloropropane	ND	1.0
Propylbenzene	ND	1.0

ND= Not Detected
 RL= Reporting Limit

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	MPE-5	Batch#:	154025
Lab ID:	214208-016	Sampled:	08/12/09
Matrix:	Water	Received:	08/13/09
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	2.000		

Analyte	Result	RL
Bromobenzene	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0
2-Chlorotoluene	ND	1.0
4-Chlorotoluene	ND	1.0
tert-Butylbenzene	2.8	1.0
1,2,4-Trimethylbenzene	1.3	1.0
sec-Butylbenzene	4.1	1.0
para-Isopropyl Toluene	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
n-Butylbenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	4.0
1,2,4-Trichlorobenzene	ND	1.0
Hexachlorobutadiene	ND	4.0
Naphthalene	ND	4.0
1,2,3-Trichlorobenzene	ND	1.0

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	107	77-137
Toluene-d8	93	80-120
Bromofluorobenzene	102	80-125

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	153929
Units:	ug/L	Analyzed:	08/17/09
Diln Fac:	1.000		

Type: BS Lab ID: QC507881

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	159.6	128	55-151
Isopropyl Ether (DIPE)	25.00	30.94	124	65-131
Ethyl tert-Butyl Ether (ETBE)	25.00	29.30	117	75-128
Methyl tert-Amyl Ether (TAME)	25.00	24.94	100	80-121
1,1-Dichloroethene	25.00	30.32	121	74-132
Benzene	25.00	26.16	105	80-120
Trichloroethene	25.00	26.07	104	80-120
Toluene	25.00	26.76	107	80-120
Chlorobenzene	25.00	28.63	115	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	95	77-137
Toluene-d8	91	80-120
Bromofluorobenzene	98	80-125

Type: BSD Lab ID: QC507882

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	164.4	132	55-151	3	21
Isopropyl Ether (DIPE)	25.00	31.10	124	65-131	0	20
Ethyl tert-Butyl Ether (ETBE)	25.00	29.57	118	75-128	1	20
Methyl tert-Amyl Ether (TAME)	25.00	25.59	102	80-121	3	20
1,1-Dichloroethene	25.00	28.54	114	74-132	6	20
Benzene	25.00	24.70	99	80-120	6	20
Trichloroethene	25.00	24.44	98	80-120	6	20
Toluene	25.00	25.23	101	80-120	6	20
Chlorobenzene	25.00	27.05	108	80-120	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	96	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	100	80-125

RPD= Relative Percent Difference

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC507918	Batch#:	153929
Matrix:	Water	Analyzed:	08/17/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC507918	Batch#:	153929
Matrix:	Water	Analyzed:	08/17/09
Units:	ug/L		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	106	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	101	80-125

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	153975
Units:	ug/L	Analyzed:	08/18/09
Diln Fac:	1.000		

Type: BS Lab ID: QC508071

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	119.8	120	55-151
Isopropyl Ether (DIPE)	20.00	21.34	107	65-131
Ethyl tert-Butyl Ether (ETBE)	20.00	20.67	103	75-128
Methyl tert-Amyl Ether (TAME)	20.00	18.55	93	80-121
1,1-Dichloroethene	20.00	20.32	102	74-132
Benzene	20.00	18.47	92	80-120
Trichloroethene	20.00	18.11	91	80-120
Toluene	20.00	19.21	96	80-120
Chlorobenzene	20.00	20.45	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	100	77-137
Toluene-d8	93	80-120
Bromofluorobenzene	98	80-125

Type: BSD Lab ID: QC508072

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	113.6	114	55-151	5	21
Isopropyl Ether (DIPE)	20.00	21.53	108	65-131	1	20
Ethyl tert-Butyl Ether (ETBE)	20.00	20.67	103	75-128	0	20
Methyl tert-Amyl Ether (TAME)	20.00	17.95	90	80-121	3	20
1,1-Dichloroethene	20.00	20.81	104	74-132	2	20
Benzene	20.00	18.12	91	80-120	2	20
Trichloroethene	20.00	17.63	88	80-120	3	20
Toluene	20.00	18.78	94	80-120	2	20
Chlorobenzene	20.00	19.50	98	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	99	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	99	80-125

RPD= Relative Percent Difference

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC508171	Batch#:	153975
Matrix:	Water	Analyzed:	08/18/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC508171	Batch#:	153975
Matrix:	Water	Analyzed:	08/18/09
Units:	ug/L		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	108	77-137
Toluene-d8	91	80-120
Bromofluorobenzene	104	80-125

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC508284	Batch#:	154025
Matrix:	Water	Analyzed:	08/19/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC508284	Batch#:	154025
Matrix:	Water	Analyzed:	08/19/09
Units:	ug/L		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	106	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	100	80-125

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	154025
Units:	ug/L	Analyzed:	08/19/09
Diln Fac:	1.000		

Type: BS Lab ID: QC508285

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	121.9	122	55-151
Isopropyl Ether (DIPE)	20.00	24.38	122	65-131
Ethyl tert-Butyl Ether (ETBE)	20.00	22.99	115	75-128
Methyl tert-Amyl Ether (TAME)	20.00	19.96	100	80-121
1,1-Dichloroethene	20.00	22.50	113	74-132
Benzene	20.00	19.32	97	80-120
Trichloroethene	20.00	19.27	96	80-120
Toluene	20.00	19.75	99	80-120
Chlorobenzene	20.00	21.25	106	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	99	77-137
Toluene-d8	94	80-120
Bromofluorobenzene	102	80-125

Type: BSD Lab ID: QC508286

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	131.4	131	55-151	7	21
Isopropyl Ether (DIPE)	20.00	24.89	124	65-131	2	20
Ethyl tert-Butyl Ether (ETBE)	20.00	23.40	117	75-128	2	20
Methyl tert-Amyl Ether (TAME)	20.00	20.09	100	80-121	1	20
1,1-Dichloroethene	20.00	22.23	111	74-132	1	20
Benzene	20.00	19.09	95	80-120	1	20
Trichloroethene	20.00	18.78	94	80-120	3	20
Toluene	20.00	19.87	99	80-120	1	20
Chlorobenzene	20.00	20.93	105	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	99	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	101	80-125

RPD= Relative Percent Difference

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC508449	Batch#:	154062
Matrix:	Water	Analyzed:	08/20/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC508449	Batch#:	154062
Matrix:	Water	Analyzed:	08/20/09
Units:	ug/L		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	105	77-137
Toluene-d8	95	80-120
Bromofluorobenzene	101	80-125

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	154062
Units:	ug/L	Analyzed:	08/20/09
Diln Fac:	1.000		

Type: BS Lab ID: QC508450

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	128.8	129	55-151
Isopropyl Ether (DIPE)	20.00	22.82	114	65-131
Ethyl tert-Butyl Ether (ETBE)	20.00	21.90	109	75-128
Methyl tert-Amyl Ether (TAME)	20.00	19.07	95	80-121
1,1-Dichloroethene	20.00	20.40	102	74-132
Benzene	20.00	18.32	92	80-120
Trichloroethene	20.00	18.65	93	80-120
Toluene	20.00	19.22	96	80-120
Chlorobenzene	20.00	20.62	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-122
1,2-Dichloroethane-d4	98	77-137
Toluene-d8	93	80-120
Bromofluorobenzene	101	80-125

Type: BSD Lab ID: QC508451

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	120.5	120	55-151	7	21
Isopropyl Ether (DIPE)	20.00	22.41	112	65-131	2	20
Ethyl tert-Butyl Ether (ETBE)	20.00	21.40	107	75-128	2	20
Methyl tert-Amyl Ether (TAME)	20.00	18.89	94	80-121	1	20
1,1-Dichloroethene	20.00	20.03	100	74-132	2	20
Benzene	20.00	17.84	89	80-120	3	20
Trichloroethene	20.00	17.81	89	80-120	5	20
Toluene	20.00	18.56	93	80-120	3	20
Chlorobenzene	20.00	20.02	100	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	100	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	99	80-125

RPD= Relative Percent Difference

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC508671	Batch#:	154109
Matrix:	Water	Analyzed:	08/21/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC508671	Batch#:	154109
Matrix:	Water	Analyzed:	08/21/09
Units:	ug/L		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	109	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	101	80-125

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Volatile Organics			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	154109
Units:	ug/L	Analyzed:	08/21/09
Diln Fac:	1.000		

Type: BS Lab ID: QC508673

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	120.0	120	55-151
Isopropyl Ether (DIPE)	20.00	22.89	114	65-131
Ethyl tert-Butyl Ether (ETBE)	20.00	21.92	110	75-128
Methyl tert-Amyl Ether (TAME)	20.00	18.83	94	80-121
1,1-Dichloroethene	20.00	20.12	101	74-132
Benzene	20.00	18.16	91	80-120
Trichloroethene	20.00	18.16	91	80-120
Toluene	20.00	18.88	94	80-120
Chlorobenzene	20.00	20.36	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	100	77-137
Toluene-d8	92	80-120
Bromofluorobenzene	102	80-125

Type: BSD Lab ID: QC508674

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	119.5	120	55-151	0	21
Isopropyl Ether (DIPE)	20.00	22.72	114	65-131	1	20
Ethyl tert-Butyl Ether (ETBE)	20.00	21.26	106	75-128	3	20
Methyl tert-Amyl Ether (TAME)	20.00	18.75	94	80-121	0	20
1,1-Dichloroethene	20.00	19.35	97	74-132	4	20
Benzene	20.00	17.53	88	80-120	4	20
Trichloroethene	20.00	17.23	86	80-120	5	20
Toluene	20.00	18.15	91	80-120	4	20
Chlorobenzene	20.00	19.68	98	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	100	77-137
Toluene-d8	93	80-120
Bromofluorobenzene	100	80-125

RPD= Relative Percent Difference

Dissolved Gases			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2511	Analysis:	RSK-175
Analyte:	Methane	Units:	mg/L
Matrix:	Water	Received:	08/13/09

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Sampled	Analyzed
GW-2	SAMPLE	214208-001	ND	0.0050	1.000	153941	08/11/09	08/17/09
GW-3	SAMPLE	214208-002	ND	0.0050	1.000	153941	08/11/09	08/17/09
MW-11	SAMPLE	214208-003	ND	0.0050	1.000	153941	08/12/09	08/17/09
LFR-1	SAMPLE	214208-004	ND	0.0050	1.000	153941	08/11/09	08/17/09
LFR-2	SAMPLE	214208-005	3.1	0.050	10.00	153977	08/11/09	08/18/09
LFR-3	SAMPLE	214208-006	ND	0.0050	1.000	153941	08/11/09	08/17/09
LFR-4	SAMPLE	214208-007	1.8	0.0050	1.000	153941	08/11/09	08/17/09
SOMA-1	SAMPLE	214208-008	0.86	0.0050	1.000	153941	08/11/09	08/17/09
SOMA-3	SAMPLE	214208-009	0.20	0.0050	1.000	153941	08/12/09	08/17/09
SOMA-4R	SAMPLE	214208-010	1.0	0.0050	1.000	153941	08/12/09	08/17/09
B-8R	SAMPLE	214208-011	5.4	0.050	10.00	153977	08/12/09	08/18/09
B-10R	SAMPLE	214208-012	1.0	0.0050	1.000	153941	08/12/09	08/17/09
MPE-1	SAMPLE	214208-013	0.090	0.0050	1.000	153941	08/12/09	08/17/09
MPE-2	SAMPLE	214208-014	1.7	0.0050	1.000	153941	08/12/09	08/17/09
MPE-4	SAMPLE	214208-015	1.7	0.0050	1.000	153941	08/12/09	08/17/09
MPE-5	SAMPLE	214208-016	2.8	0.0050	1.000	153941	08/12/09	08/17/09
	BLANK	QC507924	ND	0.0050	1.000	153941		08/17/09
	BLANK	QC508078	ND	0.0050	1.000	153977		08/18/09

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Dissolved Gases			
Lab #:	214208	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2511	Analysis:	RSK-175
Analyte:	Methane	Units:	mg/L
Field ID:	ZZZZZZZZZZ	Sampled:	08/12/09
MSS Lab ID:	214163-004	Received:	08/13/09
Matrix:	Water		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln	Fac	Batch#	Analyzed
BS	QC507925		0.6544	0.6321	97	75-120				1.000	153941	08/17/09
BSD	QC507926		0.6544	0.6346	97	75-120	0	20		1.000	153941	08/17/09
MS	QC507949	2.042	6.544	8.080	92	49-153				10.00	153941	08/17/09
MSD	QC507950		6.544	9.500	114	49-153	16	30		10.00	153941	08/17/09
BS	QC508079		0.6544	0.5767	88	75-120				1.000	153977	08/18/09
BSD	QC508080		0.6544	0.5767	88	75-120	0	20		1.000	153977	08/18/09

RPD= Relative Percent Difference