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First Semi-Annual 2005
Groundwater Monitoring Report
The Former Glovatorium Facility

3820 Manila Avenue
Oakland, California

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Project 2511

Prepared for
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Certification

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



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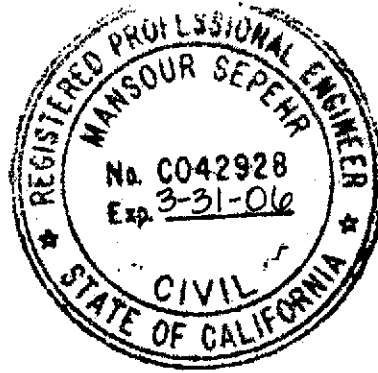


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1.0 INTRODUCTION

This report has been prepared by SOMA Environmental Engineering, Inc. (SOMA) for the Law Offices of LOEB & LOEB LLP on behalf of their client, the owners of the former Glovatorium. The property, the former Glovatorium, is located at 3820 Manila Avenue (formerly known as 3815 Broadway), Oakland, California (the "Site"), as illustrated in Figure 1. The Site is located in an area consisting primarily of commercial and residential uses.

This report summarizes the results of the groundwater monitoring event conducted at the Site on February 1-2, 2005. Included in this report are the laboratory results of the groundwater samples, which were analyzed for:

- Total petroleum hydrocarbons as Stoddard solvents (TPH-ss) and gasoline (TPH-g), using EPA Method 8015;
- Volatile organic compounds (VOCs), such as tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), vinyl chloride, 1,2-dichloropropane and 1,1-dichloroethene, using EPA Method 8260B;
- Benzene, toluene, ethylbenzene, total xylenes (collectively referred to as BTEX), using EPA Method 8260B; and
- Methyl tertiary Butyl Ether (MtBE), using EPA Method 8260B.

In addition to the above laboratory analyses, the natural attenuation study, which was initiated by Levine-Fricke Recon (LFR) in the Third Quarter of 2000, continued during this monitoring event. The objective of the natural attenuation study was to evaluate whether PCE and other 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. The results of these analyses are also described in this report.

These activities were performed in accordance with the general guidelines of the Regional Water Quality Control Board (RWQCB) and the Alameda County Environmental Health Services (ACEHS).

This work is needed to determine the nature and extent of the environmental contamination and whether contamination is affecting the neighboring Thompson property. This information is needed to defend against the claim Mr. Thompson brought against the owners of the Glovatorium, the Deppers. This work may also provide data that can help determine when the releases occurred, which is significant in defending against the claims brought by a former owner of the property, Ms. Johnson.

1.1 Site Description

The Site is located between Manila Avenue and Broadway, near the intersection of 38th Street in Oakland, California. The ground surface at the Site is covered with concrete and asphalt and slopes gently southwest, with surface elevations ranging from approximately 78 to 84 feet above mean sea level (msl).

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 GW-4.

In addition to a storm drain system, a 10-inch diameter cast iron sanitary sewer conduit runs in a westerly direction from the on-site building and discharges into the sanitary sewer line, which runs north to south along Manila Avenue. The floor drain inside the building is less than 2 feet bgs. However, the depth of the sanitary sewer line inside the building gradually increases and then slopes more steeply downward near the western wall of the building, where it plunges underneath the 54-inch storm drain (LFR, January 2001). Figure 2 shows the location of the storm drain and sanitary sewer system.

Reportedly, there were six underground storage tanks (USTs) at the Site. Two USTs were located under the sidewalk on 38th Street and four USTs were located inside the building. The volumes of the USTs 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 four USTs owned by Earl Thompson, Sr., under the sidewalk on 38th Street, see Figure 2.

The surrounding properties are primarily commercial, businesses and residential housing. TOSCO Marketing Company (TOSCO) is located north and upgradient of the Site, at 40th Street and Broadway, and contains a number of groundwater monitoring wells. Figure 2 shows the location of the main building, fuel tank areas, and the on-site and off-site groundwater monitoring wells. The groundwater monitoring wells are currently monitored on a semi-annual basis. Past groundwater monitoring events have indicated the presence of VOCs and petroleum hydrocarbons in the groundwater beneath the Site. This report includes both the results of the historical groundwater monitoring events and the results of the First Semi-Annual 2005 groundwater monitoring event.

1.2 Background

The following is a brief description of previous site investigations.

In August 1997, Geosolv, LLC (Geosolv) initiated the first soil and groundwater investigation at the Site. Geosolv using the direct push method drilled fourteen soil borings to the approximate depths of 10 to 24 feet bgs. Seven of the soil borings (B-2, B-3, B-7 through B-10 and B-13; see Figure 2) were converted into temporary groundwater monitoring wells, where grab groundwater samples were collected. In September 1998, Geosolv conducted further soil and groundwater investigations by drilling twelve additional soil borings to the approximate depths of 19 to 25 feet bgs. All of the twelve soil borings were converted into temporary groundwater sampling points, and are labeled E-15 through E-26. After collecting grab groundwater samples from the temporary "E" sampling points, they were abandoned and grouted. Figure 2a shows the locations of the soil borings.

In July 1999, based on the request of the ACEHS, an investigation of potential groundwater preferential flow paths was initiated by LFR. LFR using a direct push drilling method drilled ten 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 operations, soil samples were collected from various depth intervals. In August 1999, LFR collected grab groundwater samples from seven of the nine "GW" wells.

In January, April, October, and November 2000, LFR conducted groundwater monitoring events at the Site. In July and August 2000, LFR installed four groundwater monitoring wells, namely LFR-1 through LFR-4, and conducted the Third Quarter 2000 groundwater monitoring event. This was the first sampling event in which bioattenuation parameters were collected. The measured bioattenuation parameters included: dissolved oxygen (DO), nitrate (NO_3^-), sulfate (SO_4^{2-}), ferrous iron (Fe^{+2}), total iron, methane, oxidation-reduction potential (ORP), alkalinity, chloride, carbon dioxide, nitrite, sulfide, ethene, and ethane. The bioattenuation parameters provided a baseline for these parameters and a means to compare their concentrations at locations within the apparent source area against surrounding up-gradient, down-gradient, and cross-gradient locations.

Well completion details for the LFR wells and the Geosolv sampling points are presented in Table 1.

In January 2001, LFR conducted a groundwater monitoring event which suggested the occurrence of strong anaerobic biodegradation activities and dechlorination of PCE beneath the Site.

On April 26-27, 2001 SOMA conducted a groundwater monitoring event at the Site. This was the first time SOMA performed a monitoring event onsite. The results of the Second Quarter 2001 monitoring event indicated a strong occurrence of the dechlorination process of PCE in the subsurface. In SOMA's June 2001 workplan, a recommendation was made to replace the existing small diameter monitoring wells, B-7 and B-10, with larger diameter wells, to better evaluate the bioattenuation parameters.

After receiving approval of the workplan on August 27, 2001, SOMA installed five groundwater monitoring wells, SOMA-1 through SOMA-5, at the Site on October 4, 11, and 12, 2001. During the installation of the groundwater monitoring wells, boreholes were continuously logged and soil samples were collected at 5-foot depth intervals. The objective of this investigation was to delineate the vertical extent of soil and groundwater contamination and install larger diameter monitoring wells at the suspected chemical source areas, in order to collect more reliable bioattenuation parameters (i. e., DO) in the groundwater.

SOMA's workplan also proposed a two-phase approach for assessing the nature and extent of the soil and groundwater contamination and defining the Site's regulatory status. The first phase included installing additional groundwater monitoring wells, soil and groundwater sampling, conducting hydraulic testing, and a sensitive receptor survey. Phase II of the workplan included defining the Site's 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 the results of the investigations conducted in Phase I. The modeling aspect of Phase II was conducted using the results collected in Phase I and the analytical data from quarterly monitoring events. The main objective of the groundwater flow and chemical transport modeling was to predict groundwater chemical concentrations down-gradient from the Site, beneath the nearest residential neighboring property, in order to assess the Site's regulatory status and restore groundwater quality conditions to an acceptable level per RBCA recommendations.

Groundwater flow, chemical transport, and bioattenuation modeling for the Site was conducted by SOMA in the first quarter of 2003. The modeling results confirmed the occurrence of biodegradation beneath the Site and indicated that the bioattenuation processes would be able to remove PCE in the groundwater in approximately seven to ten years, TCE in approximately three to nine years, and cis-1,2-DCE in approximately four to thirteen years. SOMA's March 7, 2003 report, entitled "Groundwater Flow, Chemical Transport and Bioattenuation Modeling", describes the details of this study.

In the First Quarter 2003, SOMA recommended that groundwater monitoring be conducted on a semi-annual basis instead of a quarterly basis. SOMA's recommendation was approved by the ACEHS.

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's vicinity consist of Holocene alluvial deposits that are 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.

According to LFR, sediments encountered in soil borings at the Site are typical of those encountered in an alluvial fan depositional environment. The sediments 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 bgs.

Based on the October 2001 results of the field investigation conducted by SOMA, no major water-bearing zone at a deeper depth was encountered. However, as the lithological 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 in some locations are unsaturated. 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 permeable intervening clay layers between the shallow and deep layers, there is a significant vertical downward gradient between the shallow and deep wells.

According to the results of historical groundwater monitoring activities, groundwater occurs at 4 to 14 feet bgs. Based on the current and previous groundwater monitoring reports, groundwater flows from the northeast to the southwest with an approximate groundwater flow gradient of 0.019 ft/ft to 0.035 ft/ft. The results of the slug tests indicated that the hydraulic conductivity of the saturated sediments ranges between 1.2×10^{-4} and 6.9×10^{-4} cm/sec, which is equivalent to 0.34 ft/day to 1.95 ft/day. 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.

2.0 FIELD ACTIVITIES

Field activities were conducted on February 1 and 2, 2005, during which 11 groundwater monitoring wells were sampled. Depths to groundwater were measured in 22 groundwater monitoring wells and temporary sampling points. Due to the presence of floating product in SOMA-4, this well was not sampled. Well LFR-4 could not be monitored due to its inaccessibility; a car was parked over the well during this monitoring event. Figure 2 shows the location of the

groundwater monitoring wells and temporary sampling points. Appendix A includes SOMA's site-specific field activities during this groundwater monitoring event.

On February 1, 2005, SOMA's field crew measured the 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 collecting samples, each well was purged using a battery operated 2-inch diameter pump (Model ES-60 DC) or a GeoTech pump (for the smaller 3/4" diameter temporary wells). Groundwater parameters such as pH, temperature, electric conductivity (EC), DO and ORP were measured in-situ using a Horiba, Model U-22 multi-parameter meter during the purging of the wells. 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 NitriVer 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 $\frac{3}{4}$ " temporary wells were collected using the GeoTech pump. A $\frac{1}{4}$ " 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 7-(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 (COC) 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, on February 2, 2005.

2.1 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.

3.0 Results

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

3.1 Groundwater Flow Condition

Table 2 presents the calculated groundwater elevations in each well. Depths to water and the elevation at the top of the well casings were used to calculate the groundwater elevations. As shown in Table 2, groundwater elevations ranged from 67.91 feet in GW-3 to 78.92 feet in SOMA-5.

Table 2 also shows the historical water level elevations in different groundwater monitoring wells and sampling points. Since the previous monitoring event, Third Quarter 2004, groundwater elevations have increased throughout the Site, with the exception wells GW-1, MW-11 and SOMA-3. The groundwater elevation remained consistent in GW-1 and decreased in wells MW-11 and SOMA-3. Monitoring wells MW-8 and MW-9 were last sounded in January 2004. The groundwater elevation in well MW-8 increased and decreased in well MW-9.

The deviation in groundwater elevations can be attributed to the local recharge rate in each well and seasonal fluctuations. During the rainy season, the groundwater table rises causing an increase in the groundwater elevation. The decrease in groundwater elevations in wells GW-1, MW-11, and SOMA-3 may be attributed to the low recharge rates in these wells.

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

1. No accurate information about the construction details of the "B" wells, which were installed by Geosolv, is available; therefore water level data from these wells are questionable.
2. GW-4 was installed adjacent to the storm drain system in order to evaluate whether the storm drain 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 zone, and due to the strong vertical gradient, the water level elevation in the deeper zone is significantly lower than the shallow water-bearing zone.
4. Due to the presence of free product in SOMA-4, the recorded water level elevation in this well is not representative of the shallow water-bearing zone.

The water level elevation in SOMA-2 closely matches the water level elevation of the other groundwater monitoring well within the source area; therefore, it was used in drawing the water level elevation contour map.

Figure 3 displays a contour map of the groundwater elevations. As Figure 3 shows, the groundwater flows from the northeast to southwest at an average gradient of 0.0085 ft/ft. The direction of the groundwater flow is consistent, however, the groundwater gradient has slightly decreased since the previous monitoring event. It should be noted that our knowledge of the groundwater flow direction does not extend beyond LFR-3, which is the most down-gradient groundwater monitoring well.

The field measurements of some physical and chemical parameters of the groundwater samples are presented in detail in the field notes in Appendix A, and are summarized in Table 3, along with their historical values. Water temperatures ranged from 13.25°C in GW-4 to 20.55°C in MW-11. The variation in temperature may reflect the changes in air temperature during sampling. The temperature in well GW-4 may have been misrepresentative due to the dryness of the well. Measurements of pH ranged from 6.17 in LFR-3 to 7.20 in SOMA-5. The EC measurements ranged from 381 µS/cm in LFR-3 to 1,310 µS/cm in SOMA-2.

3.2 Groundwater Quality

Table 4 displays the results of the laboratory analyses for TPH-ss, TPH-g, MtBE and BTEX. As shown in Table 4, TPH-ss was below the laboratory reporting limit in wells GW-2, MW-11, LFR-1, LFR-3, and SOMA-1. Detectable TPH-ss levels ranged from 110 µg/L in SOMA-5 to 39,000 µg/L in SOMA-2. However, in monitoring well SOMA-5, the groundwater sample may have been misrepresentative due to the presence of irregular chromatographical peaks during analytical testing. A contour map of TPH-ss concentrations in the groundwater, as analyzed for the First Quarter 2005 monitoring event, is illustrated in Figure 4.

TPH-g was below the laboratory reporting limit in wells GW-2, MW-11, LFR-3, and SOMA-1. Detectable TPH-g concentrations ranged from 56 µg/L in LFR-1 to 53,000 µg/L in SOMA-2. However, the groundwater sample from LFR-1 exhibited a fuel pattern that did not resemble the standard gasoline pattern and also exhibited an unknown chromatographical single peak or peaks during laboratory testing. The groundwater in SOMA-2 may have contained heavier weight hydrocarbons, which contributed to the quantification of TPH-g concentrations and also exhibit a fuel pattern that did not resemble the standard fuel pattern. A contour map of TPH-g concentrations in the groundwater, as analyzed for the First Quarter 2005 monitoring event, is illustrated in Figure 5.

MtBE was only detected in SOMA-1 and SOMA-3 at levels of 200 µg/L and 250 µg/L, respectively. BTEX analytes were not detected in any of the groundwater samples collected during this monitoring event.

Table 4 also shows the historical analytical results for total petroleum hydrocarbons, MtBE and BTEX. Several concentration trends were observed since the previous monitoring event. TPH-ss concentrations decreased in wells GW-2, GW-4, LFR-2, SOMA-3, and SOMA-5. TPH-ss increased in wells GW-3 and SOMA-2, and remained below the laboratory reporting limit in all other wells. TPH-g concentrations increased in GW-3, LFR-1, SOMA-2, decreased in wells GW-4, LFR-2, SOMA-3, and SOMA-5, and remained below the laboratory reporting limit in all other wells. MtBE concentrations increased in SOMA-1 and SOMA-3, decreased in SOMA-2, and remained non-detectable in all the other wells. All BTEX concentrations remained non-detectable in all the wells.

Table 5 shows the historical concentrations of VOCs in the groundwater. PCE was below the laboratory reporting limit in wells GW-4, MW-11, LFR-2, LFR-3, SOMA-2, SOMA-3, and SOMA-5. The detectable concentrations of PCE ranged from 22 µg/L in monitoring well SOMA-1 to 360 µg/L in GW-3. A contour map of PCE concentrations in the groundwater, as analyzed for the First Quarter 2005 monitoring event, is illustrated in Figure 6.

TCE was only detected in wells GW-2 and LFR-1. Detectable levels of TCE ranged from 6.6 µg/L in GW-2 to 7.9 µg/L in LFR-1. A contour map of TCE concentrations in the groundwater, as analyzed for the First Quarter 2005 monitoring event, is illustrated in Figure 7.

Cis-1,2-dichloroethene was detected in GW-2, LFR-1, SOMA-1, SOMA-2 and SOMA-3 at concentrations of 16 µg/L, 7.2 µg/L, 28 µg/L, 6,100 µg/L and 1,100 µg/L, respectively. A contour map of cis-1,2-dichloroethene concentrations in the groundwater, as analyzed for the First Quarter 2005 monitoring event, is illustrated in Figure 8.

Trans-1,2-dichloroethene, vinyl chloride, and 1,2-dichloropropane were all below the laboratory reporting limit in all of the samples.

Several concentration trends were observed since the previous monitoring event. PCE decreased in GW-2 and GW-3, increased in LFR-1 and SOMA-1, and remained below the laboratory detection limit in all other wells. TCE concentrations decreased in GW-2 and LFR-1, and remained below the laboratory reporting limits in all other wells. Cis-1,2-DCE increased in GW-2, LFR-1, and SOMA-2, decreased in LFR-2, SOMA-1, and SOMA-3, and remained at a non-detectable level in all other wells. Trans-1,2-DCE, vinyl chloride, and 1,2-Dichloropropane remained below the laboratory reporting limit in all of the groundwater samples.

3.3 Bioattenuation Parameter Analysis Results

SOMA continued to collect natural attenuation parameters during this groundwater monitoring event. The objective of the bioattenuation study is to

evaluate whether intrinsic bioremediation processes are active at the Site. The results of this study indicated that PCE and other dissolved organic compounds are biodegrading beneath the Site.

Like the previous monitoring events, most of the bioattenuation parameters were measured in the field. Only dissolved methane was measured in the laboratory. In addition, DO was measured in-situ by the field crew. Based on Borden (1998) and Sepehr (1999), the ex-situ measurement of natural gases such as DO may introduce oxygen into the groundwater sample and result in certain errors. Therefore, DO was measured in the field, inside the casing, before collecting a groundwater sample.

Naturally occurring biological processes can enhance the removal rate of contaminants in the subsurface. During the degradation process, indigenous bacteria that exist in the subsurface utilize the energy released from the transfer of electrons to drive the 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 DO, followed by nitrate, manganese, ferric iron, sulfate, and carbon dioxide, in descending order of preference. Evaluating the distribution of these electron acceptors can provide evidence of where and to what extent chlorinated and aliphatic hydrocarbon biodegradation is occurring. The by-products of the biodegradation processes are nitrite, ferrous iron, alkalinity, sulfide, methane, and carbon dioxide. For the evaluation of bioattenuation processes beneath the Site, groundwater samples were collected during the current groundwater monitoring event and analyzed for selected electron acceptors and the by-products of biodegradation activities, as described below.

Dissolved Oxygen. DO is the most favored electron acceptor used by microbes for the biodegradation of organic compounds. A DO concentration less than 0.5 mg/L indicates anaerobic conditions. In our experience, in-situ measurements of DO yield more realistic results than ex-situ (laboratory) measurements. Significant differences in DO concentrations using in-situ and ex-situ measurements (conducted by Microseep) during the First Quarter 2001 can be attributed to cross contamination by atmospheric oxygen during ex-situ measurement (R. Borden, 1998, M. Sepehr 1999). Therefore, during recent monitoring events, DO measurements were conducted in-situ by SOMA's field crew. DO levels ranged from 1.17 mg/L in SOMA-2 to 8.41 mg/L in GW-2. A contour map of DO concentrations in the groundwater, using in-situ measurements, during the First Quarter 2005 monitoring event, is illustrated in Figure 9.

It should be noted that due to the limitation of the 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, the results may not be representative of the subsurface condition due to the small diameter of this well. Table 6 presents the current and historical DO concentrations in the groundwater. In general, since the previous monitoring event, DO levels decreased significantly throughout the Site, with the exception of GW-2. DO increased in well GW-2.

Nitrate. After DO has been depleted, nitrate may be used as an electron acceptor for anaerobic biodegradation. Nitrate concentrations less than 1.0 mg/L may indicate that reductive dechlorination is occurring. Nitrate levels were not observed in any of the wells during the First Quarter 2005. Therefore, a contour map of nitrate concentrations is not included in this report.

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 the groundwater are indicative of reductive dechlorination. Detectable manganese concentrations ranged from 0.1 mg/L in SOMA-1 to 12.1 mg/L in LFR-2. Manganese was not detected in wells GW-2, LFR-1, and LFR-3. As shown in Table 6, dissolved manganese concentrations increased in wells GW-3, MW-11, LFR-2, SOMA-1, SOMA-2, SOMA-3, and SOMA-5, and decreased in wells GW-4, LFR-1, and LFR-3, since the previous monitoring event. Dissolved manganese increased significantly in well LFR-2, since the previous monitoring event. A contour map of dissolved manganese concentrations in the groundwater, as measured during the First Quarter 2005 monitoring event, is illustrated in Figure 10.

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 the production of sulfide. Sulfate concentrations less than 20 mg/L are indicative of reductive dechlorination (EPA 1998). Sulfate was not detected in GW-4, LFR-2, LFR-3, SOMA-1, SOMA-2, SOMA-3, and SOMA-5. Detectable sulfate levels ranged from 1 mg/L in LFR-1 to 52 mg/L in MW-11. Since the previous monitoring event, sulfate levels increased in GW-2, and decreased in GW-3, MW-11, LFR-1, LFR-3, and SOMA-1. A contour map of sulfate concentrations in the groundwater, as measured during the First Quarter 2005 monitoring event, is illustrated in Figure 11.

Ferrous Iron. Increased ferrous iron accompanies 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. Ferrous iron was not detected in GW-2, GW-3, MW-11, LFR-1, LFR-3, and SOMA-1. The highest ferrous iron concentrations were found in both SOMA-2 and SOMA-5, each at a level of 3.3 mg/L. Ferrous iron levels have decreased in GW-4, LFR-2, and SOMA-3 and increased at wells SOMA-2 and SOMA-5. A contour map of ferrous iron concentrations in the groundwater, as

measured during the First Quarter 2005 monitoring event, is illustrated in Figure 12.

Methane. The presence of methane in groundwater is indicative of strongly reduced conditions and suggests reductive dechlorination by the process of methanogenesis. Methane concentrations ranged from 0.012 mg/L in LFR-1 to 13 mg/L in SOMA-2. The higher concentrations of methane in the vicinity of GW-4, LFR-2, SOMA-2, SOMA-3, and SOMA-5 indicate conditions that are conducive to anaerobic biodegradation. As shown in Table 6, methane concentrations have increased in LFR-1, LFR-2, SOMA-1, SOMA-2, and SOMA-5, and decreased in all other monitoring wells since the previous monitoring event. A contour map of methane concentrations in the groundwater, as measured during the First Quarter 2005 monitoring event, is illustrated in Figure 13.

Oxygen Reduction Potential. The ORP of groundwater is a measure of electron activity and is 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 -95 mV in SOMA-2 to +137 mV in SOMA-1. Negative ORP values were found in wells SOMA-2, SOMA-3, and SOMA-5. These results indicate that conditions in and near the apparent source area are conducive to anaerobic biodegradation.

3.4 Other Parameters

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 nature of data collected during previous groundwater monitoring events in connection with the bioattenuation process, no alkalinity data was collected during the current and 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 nature of data collected during the previous groundwater monitoring events in connection with the bioattenuation process, no chloride data was collected during this and previous groundwater monitoring events.

Carbon Dioxide: Carbon dioxide is a product of several biodegradation processes. Due to the inconclusive nature of data collected during the previous groundwater monitoring events, in connection with the bioattenuation process, no carbon dioxide data was collected during the 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 not detected in GW-2, GW-3, MW-11, LFR-1, and SOMA-1. Detectable total iron concentrations ranged from 0.12 mg/L in LFR-3 to 3.3 mg/L in wells GW-4, SOMA-2, and SOMA-5. The results of the total iron analysis are presented in Table 3.

Nitrite: Nitrate may reduce to nitrite during the process of anaerobic biodegradation. Nitrite concentrations were not detected in any of the wells during the First Quarter 2005. Current and historical nitrite concentrations in the groundwater are shown in Table 3.

Sulfide: When sulfate is used as an electron acceptor for anaerobic biodegradation it is reduced to sulfide. Due to the inconclusive nature of data collected during the 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 has an effect on the 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. The groundwater temperature affects the 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.

Appendix B includes the COC forms and laboratory reports for the First Semi-Annual 2005 groundwater monitoring event.

4.0 CONCLUSIONS AND RECENT ACTIVITIES

Based on the data obtained during the First Semi-Annual 2005 groundwater monitoring event, our conclusions are as follows:

1. The furthest down-gradient well, LFR-3, and the furthest up-gradient well, MW-11, did not contain any detectable concentrations of VOCs, TPH-g, TPH-ss, MtBE or BTEX.
2. The data collected to date regarding the distribution of PCE and other VOCs in the groundwater demonstrate that PCE has been degraded into some of its breakdown products. PCE typically degrades into TCE, then cis-1,2-DCE and trans-1,2-DCE (at much lower concentrations than

cis-1,2-DCE), then to vinyl chloride, ethane and ethene and finally carbon dioxide, water, and chloride. This sequence of degradation would be anticipated where the biological reductive dehalogenation of PCE is occurring. Some of these breakdown products and relative concentrations are present at the Site. The presence of TCE in LFR-1 during the current sampling event demonstrates that PCE degradation is occurring. The presence of relatively high concentrations of cis-1,2-DCE in SOMA-2 and SOMA-3 and its presence in wells LFR-1 and SOMA-1 is also indicative of biodegradation.

3. The results of DO, nitrate, manganese, sulfate, ferrous iron, methane, and ORP measurements demonstrate that conditions in the apparent source area are conducive to the reductive dechlorination processes.
4. The apparent source area still appears to be in the region of wells SOMA-2, SOMA-3, and SOMA-5.

4.1 Summary of recent activities

Prior to the installation of a skimmer pump in SOMA-4, on January 28, 2004 there was over 9 feet of free product on the surface of the groundwater in this well. On February 6, 2004, SOMA installed a flexible axial peristaltic pump (FAP system) in SOMA-4 to remove free product. SOMA will continue removing free product from this well until the product thickness disappears.

SOMA has completed implementing Phase II of the approved workplan (dated June 15, 2001). As such, SOMA has completed groundwater flow and chemical transport modeling to simulate the future extent of the chlorinated solvents and other chemicals beneath the Site. In addition, SOMA has conducted a human health risk assessment for the Site. In light of the groundwater modeling results, as well as the human health risk assessment, the only remaining issue is the complete removal of free product from certain wells. SOMA is currently in the process of removing free product from the subsurface. Once the free product is completely removed from the Site, the Site can be categorized as a "Low Risk" chemical release site.

In August 2004, SOMA converted borings B-3 and B-8 into wells for the purpose of removing free product from these locations. As mentioned earlier, a FAP system was installed in SOMA-4 and another FAP system was installed in B-8 to remove free product from these wells. Currently, free product is being removed from both SOMA-4 and B-8. As of January 28, 2005, approximately 940 gallons of free product have been removed from these wells. In early February, due to excess rainfall and the reduced efficiency of the FAP system in removing free product, the system was temporarily shut down. The free product removal will resume after the rainy season.

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TABLES

Table 1
Construction Data for Temporary Sampling Points and Monitoring Wells
Former Glovatorium Site
3815 Broadway, 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	81.62	81.39	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

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.

Table 2
Historical Groundwater Elevation Data (feet)
Former Glovatorium Site
3815 Broadway, Oakland, California

Date	B-2	B-3	B-7	B-8	B-9	B-10	B-13
1-Feb-05	75.67	76.19	72.85	NM	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	NM	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
3815 Broadway, Oakland, California

Date	GW-1	GW-2	GW-3	GW-4	GW-5	GW-6A	GW-8	MW-8	MW-9	MW-11
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
3815 Broadway, Oakland, California

Date	LFR-1	LFR-2	LFR-3	LFR-4	SOMA-1	SOMA-2	SOMA-3	SOMA-4	SOMA-5
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	70.35	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 ^(1+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									

Notes:

1= Survey elevation and water-level measurement taken at concrete surface. Elevations and 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

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, 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 Geosyn 11-14-00												
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					
B-7 field	31-Oct-00	760	42	200	14.00	<0.1	<2.0			6.16	16.05	1454
B-7 field	31-Jan-00	720	43	170	12.00	<0.1	<2.0			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-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			6.81	14.66	1117
	31-Jan-01				1.44	0.07				6.65	16.70	1090
	11-Jun-01				1.31					6.38	16.09	1160
	26-Jul-01				6.50	0.00				6.86	16.80	1130
	10-Aug-01	520	74	145	6.00	<0.05	<0.04	<0.0005	0.00	6.86	16.80	1130
Temporary Sampling Points installed by LTR												
GW-2	01-Nov-00			63						6.31	18.97	1218
GW-2 field	30-Jan-01									6.82	13.75	846
GW-2 field	31-Jan-01									6.80	19.50	874
GW-2 field	26-Apr-01				0.02					6.74	20.30	803
GW-2 field	26-Jul-01				0.03	0.02				6.84	21.30	786
GW-2 field	19-Oct-01	NM	NM	NM	NM	NM	NM	NM	NM	6.84	21.30	786
GW-2 field	31-Jan-02	NM	NM	NM	1.05	0.01	NM	NM	NM	6.70	17.70	797
GW-2 field	16,17-Apr-02	NM	NM	NM	0.65	0.02	NM	NM	NM	6.38	17.00	707
GW-2 field	17,18-Jul-02	NM	NM	NM	1.39	0.00	NM	NM	NM	6.35	17.75	798
GW-2 field	23-Oct-02	NM	NM	NM	0.12	0.04	NM	NM	NM	6.73	19.78	670
GW-2 field	19-Feb-03	NM	NM	NM	0.10	0.02	NM	NM	NM	6.86	18.10	607
GW-2 field	29-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	7.26	20.10	651
GW-2 field	29-Jan-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.72	18.00	542
GW-2 field	4-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.85	19.92	561
GW-2 field	2-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.82	18.34	503
GW-3	11-Aug-00	340	25	54				<0.0005	<0.0005	7.05	21.43	860
GW-3 field	11-Aug-00					0.05	-1.00					
GW-3 field	1-Nov-00									6.52	18.83	967
GW-3 field	1-Feb-01			54						6.89	17.29	602
GW-3 field	29-Jan-01									5.68	16.20	673
GW-3 field	11-Jun-01				0.00	0.70				6.53	22.25	547
GW-3 field	26-Jul-01				0.14	0.00				6.84	22.56	590
GW-3 field	19-Oct-01	NM	NM	NM	0.00	NM	NM	NM	NM	6.84	22.56	590
GW-3 field	31-Jan-02	NM	NM	NM	0.14	0.01	NM	NM	NM	6.70	18.40	593
GW-3 field	16,17-Apr-02	NM	NM	NM	0.00	0.00	NM	NM	NM	6.64	16.61	526
GW-3 field	17,18-Jul-02	NM	NM	NM	1.08	0.01	NM	NM	NM	6.32	17.10	545
GW-3 field	23-Oct-02	NM	NM	NM	0.00	0.00	NM	NM	NM	6.36	19.80	425
GW-3 field	19-Feb-03	NM	NM	NM	0.08	0.01	NM	NM	NM	6.77	17.80	412
GW-3 field	29-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	7.07	19.40	490
GW-3 field	29-Jan-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.65	18.20	450
GW-3 field	3-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.74	20.20	436
GW-3 field	2-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.28	19.39	445
GW-4	30-Jan-01				2.00	0.04				6.60	13.48	479
GW-4	26-Jul-01									6.45	19.44	827
GW-4	19-Oct-01	NM	NM	NM	11.00	NM	NM	NM	NM	6.79	18.36	732
GW-4	31-Jan-02	NM	NM	NM	12.70	0.01	NM	NM	NM	6.50	12.00	414
GW-4	16,17-Apr-02	NM	NM	NM	6.40	0.03	NM	NM	NM	6.34	13.98	467
GW-4	17,18-Jul-02	NM	NM	NM	>3.3	0.03	NM	NM	NM	6.49	21.93	572
GW-4	23-Oct-02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
GW-4	19-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.67	13.60	466
GW-4	30-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	7.30	18.70	430
GW-4	29-Jan-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.85	13.00	534
GW-4	3-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.96	22.62	509
GW-4	1-Feb-05	NM	NM	NM	3.30	0.00	NM	NM	NM	6.60	13.25	382

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, 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)
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					
MW-11 field	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			6.35	13.67	1
MW-11 field	31-Jan-01									5.67	18.00	1210
MW-11 field	26-Apr-01				0.01					6.02	19.85	1120
MW-11 field	26-Jul-01				0.00	0.02				6.41	21.25	130
MW-11 field	19-Oct-01	NM	NM	NM	0.00	NM	NM	NM	NM	6.60	18.50	1090
MW-11 field	31-Jan-02	NM	NM	NM	0.05	0.04	NM	NM	NM	5.87	18.70	1150
MW-11 field	16,17-Apr-02	NM	NM	NM	0.00	0.00	NM	NM	NM	6.27	18.37	1180
MW-11 field	17,18-Jul-02	NM	NM	NM	0.00	0.02	NM	NM	NM	6.62	20.81	1220
MW-11 field	23-Oct-02	NM	NM	NM	0.00	0.04	NM	NM	NM	6.49	19.50	1170
MW-11 field	18-Feb-03	NM	NM	NM	0.00	0.04	NM	NM	NM	6.92	19.70	941
MW-11 field	30-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	6.61	19.00	1000
MW-11 field	29-Jan-04	NM	NM	NM	0.00	1.80	NM	NM	NM	8.86	21.70	825
MW-11 field	3-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.43	20.55	856
MW-11 field	1-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM			
Monitoring Wells Installed by LFR												
LFR-1	11-Aug-00	250	110					<0.0005	<0.0005	6.97	19.73	936
LFR-1 field	09-Aug-00			51		0.02	-1.00					
LFR-1 field	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 field	29-Jan-01				0.00	0.04				6.82	15.00	870
LFR-1 Dup	29-Jan-01	150	75	26	<0.05	<0.1	<2					
LFR-1 Dup	26-Apr-01				0.00					5.76	16.80	980
LFR-1 Dup	26-Jul-01				0.05	0.01				6.48	19.38	772
LFR-1 Dup	26-Jul-01	NM	NM	NM	0.42	NM	NM	NM	NM	6.73	20.83	661
LFR-1 Dup	31-Jan-02	NM	NM	NM	0.03	0.01	NM	NM	NM	6.50	16.50	879
LFR-1 Dup	16,17-Apr-02	NM	NM	NM	0.75	0.02	NM	NM	NM	5.88	16.37	1120
LFR-1 Dup	17,18-Jul-02	NM	NM	NM	0.22	0.01	NM	NM	NM	6.40	17.02	832
LFR-1 Dup	23-Oct-02	NM	NM	NM	0.30	0.00	NM	NM	NM	6.54	20.09	803
LFR-1 Dup	18-Feb-03	NM	NM	NM	0.40	0.00	NM	NM	NM	6.47	16.90	607
LFR-1 Dup	30-Jul-03	NM	NM	NM	0.02	0.00	NM	NM	NM	6.92	19.20	1330
LFR-1 Dup	29-Jan-04	NM	NM	NM	0.00	5.10	NM	NM	NM	6.62	18.00	830
LFR-1 Dup	4-Aug-04	NM	NM	NM	0.47	0.00	NM	NM	NM	6.39	19.01	1260
LFR-1 Dup	2-Jan-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.73	17.80	744
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					
LFR-2 field	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					
LFR-2 field	30-Jan-01				1.04	0.01				6.60	12.73	945
LFR-2 field	27-Apr-01				2.97					5.64	16.40	921
LFR-2 field	26-Jul-01				4.60	0.01				6.31	18.66	970
LFR-2 field	18-Oct-01	NM	NM	NM	8.20	NM	NM	NM	NM	6.78	19.56	109
LFR-2 field	31-Jan-02	NM	NM	NM	1.97	0.05	NM	NM	NM	6.50	16.60	644
LFR-2 field	16,17-Apr-02	NM	NM	NM	7.60	0.06	NM	NM	NM	6.19	16.43	845
LFR-2 field	17,18-Jul-02	NM	NM	NM	8.80	0.00	NM	NM	NM	6.52	16.24	986
LFR-2 field	23-Oct-02	NM	NM	NM	3.30	0.06	NM	NM	NM	6.84	18.09	812
LFR-2 field	18-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.50	16.90	617
LFR-2 field	30-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	7.15	17.30	861
LFR-2 field	29-Jan-04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LFR-2 field	4-Aug-04	NM	NM	NM	3.30	0.00	NM	NM	NM	6.76	17.39	795
LFR-2 field	1-Feb-05	NM	NM	NM	2.25	0.00	NM	NM	NM	6.46	17.68	559

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, 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-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					
	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					
	30-Jan-01				0.03					6.64	17.29	541
	11-Jun-01				0.01					5.43	18.00	613
	26-Jul-01				0.70	0.03				6.25	20.50	602
	18-Oct-01	NM	NM	NM	0.12	NM	NM	NM	NM	6.50	21.39	645
	31-Jan-02	NM	NM	NM	0.06	0.02	NM	NM	NM	6.30	19.10	566
	16,17-Apr-02	NM	NM	NM	1.20	0.04	NM	NM	NM	5.78	18.68	566
	17,18-Jul-02	NM	NM	NM	0.08	0.01	NM	NM	NM	6.17	18.42	585
	23-Oct-02	NM	NM	NM	1.35	0.00	NM	NM	NM	6.32	20.65	457
	19-Feb-03	NM	NM	NM	0.74	0.00	NM	NM	NM	6.34	19.30	497
	30-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	6.87	19.80	457
	29-Jan-04	NM	NM	NM	1.70	0.00	NM	NM	NM	6.60	20.00	393
	3-Aug-04	NM	NM	NM	0.34	0.00	NM	NM	NM	6.24	19.96	415
	2-Feb-05	NM	NM	NM	0.12	0.00	NM	NM	NM	6.17	20.06	381
LFR-4	11-Aug-00	630	71	161				<0.0005	<0.0005	6.90	20.11	1240
LFR-4 FB	10-Aug-00							<0.0005	<0.0005			
LFR-4 field	11-Aug-00				0.22	0.02	0.00					
	31-Oct-00	490	28	130	1.00	<0.1	<2					
LFR-4 field	31-Oct-00				0.67	0.02	0.00			6.21	16.11	830
	01-Feb-01	460	25	120	1.30	<0.1	<2					
LFR-4 field	01-Feb-01				1.43	0.02				6.55	15.28	916
	27-Apr-01				1.44					5.79	18.30	1060
	26-Jul-01				0.95	0.00				6.26	19.23	866
	16,17-Apr-02	NM	NM	NM	5.10	0.03	NM	NM	NM	6.19	18.04	925
	17,18-Jul-02	NM	NM	NM	>3.3	0.01	NM	NM	NM	5.92	17.28	878
	23-Oct-02	NM	NM	NM	3.30	0.00	NM	NM	NM	6.69	19.90	602
	19-Feb-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.38	19.10	994
	29-Jul-03	NM	NM	NM	3.30	0.00	NM	NM	NM	6.94	19.00	994
	29-Jan-04	NM	NM	NM	0.71	0.00	NM	NM	NM	6.53	19.50	689
Monitoring Wells Operated 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
	16,17-Apr-02	NM	NM	NM	0.17	0.03	NM	NM	NM	6.01	17.98	1280
	17,18-Jul-02	NM	NM	NM	0.11	0.01	NM	NM	NM	6.52	16.21	1270
	23-Oct-02	NM	NM	NM	0.24	0.01	NM	NM	NM	6.60	17.77	1270
	19-Feb-03	NM	NM	NM	0.00	0.01	NM	NM	NM	6.33	17.40	1350
	30-Jul-03	NM	NM	NM	0.00	0.00	NM	NM	NM	6.90	17.80	1300
	29-Jan-04	NM	NM	NM	2.10	0.00	NM	NM	NM	6.51	17.60	959
	3-Aug-04	NM	NM	NM	0.00	0.00	NM	NM	NM	6.42	17.89	956
	1-Feb-05	NM	NM	NM	0.00	0.00	NM	NM	NM	6.26	17.70	985
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	16.80	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
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
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

Table 3
Historical Analytical Results and Field Measurements for
Dissolved Ions and Gas, pH, Temperature, and Electrical Conductivity in Groundwater Samples
Former Glovatorium Site
3815 Broadway, 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

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 Colorimeter

NM= not measured

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE
in Groundwater Samples
Former Glovatorium Site
3815 Broadway, 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 O&E, LLC								
B-2	24-Jan-00	20 ^J	31 ^J	<0.05	<0.013	<0.013	0.11 ^C	0.22 ^C
B-3	24-Jan-00	4.9 ^J	8.8 ^J	<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 ^J	<0.01	<0.0025	<0.0025	<0.0025	0.17 ^C
B-9	24-Jan-00	1 ^J	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 ^P	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
B-13	24-Jan-00	1.7 ^J	3 ^J	<0.01	<0.0025	<0.0025	<0.0025	0.0200
Temporary Sampling Points Installed by O&E, LLC								
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	0.00997 ^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
	31-Jan-02	<0.05	<0.050	<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	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	19-Feb-03	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jul-03	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
28-Jan-04	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	
4-Aug-04	0.054 ^{YZ}	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	
2-Feb-05	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE
in Groundwater Samples
Former Glovatorium Site
3815 Broadway, 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-3	19-Jul-99	0.070 ^Z	0.100 ^Z	<0.0020	<0.0005	<0.0005	<0.0005	0.00064
	20-Jan-00	0.150	0.260 ^Y	<0.0020	<0.0005	<0.0005	<0.0005	0.00130 ^C
	27-Apr-00	0.200 ^{YZ}	0.380 ^{YZ}	<0.0020	<0.0005	<0.0005	<0.0005	<0.00050
	27-Apr-00	0.300 ^Z	0.570 ^{YZ}	<0.0020	<0.0005	<0.0005	<0.0005	<0.00050
	11-Aug-00	<0.050	0.077 ^{YZ}	<0.0020	<0.0005	<0.0005	<0.0005	0.00051
	2-Nov-00	<0.050	0.050 ^{YZ}	0.0026	<0.0005	<0.0005	<0.0005	<0.00050
	1-Feb-01	<0.050	<0.050	<0.0020	<0.0005	<0.0005	<0.0005	<0.00050
	27-Apr-01	<0.050	0.062 ^{YZ}	0.0056	<0.0005	<0.0005	<0.0005	<0.00050
	27-Jul-01	<0.050	<0.050	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	<0.050	0.070 ^{YZ}	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.0050 ^b	<0.00500 ^b
	16,17-Apr-02	<0.050	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	0.110 ^{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	
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	0.550	0.700 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	0.580	0.880 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	0.390	0.580 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005
28-Jan-04	0.310	0.520 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005	
3-Aug-04	0.710	0.640 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005	
1-Feb-05	0.280	0.370 ^{HY}	<0.005	<0.005	<0.005	<0.005	<0.005	
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	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
in Groundwater Samples
Former Glovatorium Site
3815 Broadway, 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 OSCO								
MW-11	25-Jan-00	<0.050	<0.05	0.0090	<0.0005	<0.0005	<0.0005	<0.0005
	28-Apr-00	<0.050	<0.05	<0.0087	<0.0005	<0.0005	<0.0005	<0.0005
	10-Aug-00	<0.050	<0.05	0.0110	<0.0005	<0.0005	<0.0005	<0.0005
	1-Nov-00	<0.050	<0.05	0.0068	<0.0005	<0.0005	<0.0005	<0.0005
	31-Jan-01	<0.050	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	27-Jul-01	<0.050	0.10 ^{HY}	0.0010	<0.0005	<0.0005	<0.0005	0.0007
	19-Oct-01	<0.050	<0.05	<0.0050	<0.0050	<0.005	<0.005	<0.010
	31-Jan-02	<0.050	0.071 ^Y	<0.0050 ^b	<0.0050 ^b	<0.005 ^b	<0.005 ^b	<0.005 ^b
	16,17-Apr-02	<0.050	<0.050	<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	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
	18-Feb-03	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
28-Jan-04	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	
3-Aug-04	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	
1-Feb-05	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	
Monitoring Well 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	<0.050	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	<0.050	0.068 ^{YZ}	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	0.080 ^{YZ}	0.100 ^{YZ}	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063
4-Aug-04	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	
2-Feb-05	<0.050	0.056 ^{YZ}	<0.005	<0.005	<0.005	<0.005	<0.005	
Monitoring Wells Installed by LFR								
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	

Table 4
Historical Analytical Results for Total Petroleum Hydrocarbon, BTEX and MtBE
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Former Glovatorium Site
3815 Broadway, 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-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	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
	30-Jul-03	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005
3-Aug-04	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	
2-Feb-05	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	
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	0.270	0.0065	0.00084	<0.0005	<0.0005	<0.0005
	1-Feb-01	0.16 ^Y	0.220	0.0097	0.00330	<0.0005	<0.0005	<0.0005
	27-Apr-01	0.22 ^Y	0.440	0.0058	0.02700	0.0036	<0.0005	<0.0005
	27-Jul-01	0.091 ^Y	0.190	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	0.670	<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	0.170	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	0.590	<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	
Monitoring Wells Installed by SOMA								
SOMA-1	19-Oct-01	0.22	0.440	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	<0.050	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	<0.050	0.053	0.140	<0.005	<0.005	<0.005	<0.005
	19-Feb-03	<0.050	<0.050	0.150	<0.0071	<0.0071	<0.0071	<0.0071
	30-Jul-03	<0.050	<0.050	0.190	<0.005	<0.005	<0.005	<0.005
	29-Jan-04	<0.050	<0.050	0.190	<0.005	<0.005	<0.005	<0.005
	3-Aug-04	<0.050	<0.050	0.170	<0.013	<0.013	<0.013	<0.013
1-Feb-05	<0.050	<0.050	0.200	<0.017	<0.017	<0.017	<0.017	
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	0.370	0.600 ^{HY}	0.300	<0.0071	<0.0071	<0.0071	<0.0071
	19-Feb-03	0.300	0.460 ^{HY}	0.210	<0.017	<0.017	<0.017	<0.017
	29-Jul-03	0.270	0.400 ^{HY}	0.300	<0.020	<0.020	<0.020	<0.020
	28-Jan-04	0.230	0.38 ^{HY}	0.270	<0.017	<0.017	<0.017	<0.017
	4-Aug-04	0.310	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	

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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-3	19-Oct-01	0.420	0.83	0.65	<0.02500	<0.02500	<0.0250	<0.0500
	31-Jan-02	0.230	0.41 ^{HY}	0.31 ^b	<0.01300 ^b	<0.01300 ^b	<0.0130 ^b	<0.0130 ^b
	16,17-Apr-02	0.610	1.00 ^{HY}	0.42	0.00078	0.00068	<0.0005	<0.0005
	17,18-Jul-02	0.410	0.69 ^{HY}	0.38	<0.017	<0.017	<0.017	<0.017
	22,23-Oct-02	3.000	4.700 ^{HY}	<0.170	<0.170	<0.170	<0.170	<0.170
	19-Feb-03	2.500	3.800 ^{HY}	<0.130	<0.130	<0.130	<0.130	<0.130
	29-Jul-03	2.100	3.100 ^{HY}	<0.130	<0.130	<0.130	<0.130	<0.130
	29-Jan-04	4.100	6.8 ^{HY}	<0.310	<0.310	<0.310	<0.310	<0.310
4-Aug-04	4.000	3.6 ^{HY}	<0.500	<0.500	<0.500	<0.500	<0.500	
	2-Feb-05	0.270	0.36 ^{HY}	0.25	<0.063	<0.063	<0.063	<0.063
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
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

Notes:

- ^b Analysis was carried out npast the hold date, no analytical problems were encountered
- ^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, LFR-4 was not analyzed during the Second Quarter 2002 due to the well being inaccessible.
Not Analyzed. Well LFR-4 inaccessible during the Third Quarter 2004 Monitoring Event.
- ^Y Sample exhibits fuel pattern which does not resemble standard.
- ^Z Sample exhibits unknown single peak or peaks.

FP: Free product detected in SOMA 4.

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.

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in
Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, 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 Geosily/USC							
B-2	24-Jan-00	<0.0013	<0.0013	0.270	0.001	< 0.0013	< 0.0013
B-3	24-Jan-00	< 0.0020	< 0.002	0.610	< 0.002	< 0.002	< 0.002
B-7	24-Jan-00	< 0.0036	< 0.0036	0.920	0.004	< 0.0036	< 0.0036
	11-Aug-00	< 0.0031	< 0.0031	0.860	0.005	< 0.0031	< 0.0031
	31-Oct-00	< 0.0042	< 0.0042	0.910	0.004	< 0.0042	< 0.0042
	27-Jul-01	0.010	0.017	0.860	0.005	<0.0031	<0.0031
	27-Apr-01	<0.0031	<0.0031	1.100	0.007	<0.0031	<0.0031
31-Jan-01	< 0.0042	< 0.0042	0.920	0.005	< 0.0042	< 0.0042	
B-8	24-Jan-00	< 0.0005	< 0.0005	0.035	< 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	1.200	2.400	14.000	0.090	< 0.063	< 0.063
	10-Aug-00	2.900	1.600	6.500	0.050	< 0.025	< 0.025
	31-Oct-00	2.400	1.900	7.100	0.061	< 0.025	< 0.025
	27-Jul-01	1.700	1.400	7.300	0.043	<0.025	<0.025
	27-Jul-01	0.870	0.810	6.800	0.041	<0.025	<0.025
31-Jan-01	2.100	1.600	6.600	0.044	< 0.025	< 0.025	
B-13	24-Jan-00	0.020	0.029	0.130	0.005	< 0.0005	< 0.0005
Temporary Sampling Points installed by JEP							
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	
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	

Table 5
Historical Analytical Results For Volatile Organic Compound Analyses in
Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, 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-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	
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
27-Apr-00	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
GW-7 Split	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
	15-Jul-99	< 0.0020	< 0.0020	0.004	< 0.0020	< 0.0020	< 0.0020
GW-8 Split	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
	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
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	

Table 5
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3815 Broadway, 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	2.800	0.064	0.041	< 0.0083	< 0.0083	< 0.0083
	30-Oct-00	0.820	0.034	0.010	< 0.0031	< 0.0031	< 0.0031
	30-Oct-00	0.870	0.035	0.014	< 0.0031	< 0.0031	< 0.0031
	29-Jan-01	0.770	0.026	0.007	<0.0025	<0.0025	<0.0025
	26-Apr-01	0.440	0.013	0.005	<0.0013	<0.0013	<0.0013
	27-Jul-01	0.380	0.031	0.010	<0.0013	<0.0013	<0.0013
	18-Oct-01	0.780	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	0.380	0.040	<0.0130	<0.0130	<0.0250	<0.0130
	17,18-Jul-02	0.360	0.041	<0.013	<0.013	<0.025	<0.013
	22,23-Oct-02	0.180	0.024	0.007	<0.005	<0.010	<0.005
	18-Feb-03	0.280	0.032	<0.005	<0.005	<0.010	<0.005
	30-Jul-03	0.150	0.027	0.007	<0.005	<0.010	<0.005
	29-Jan-04	0.150	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
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
	LFR-3 Split	10-Aug-00	< 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	
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	

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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	
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	
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	0.360	<0.017	<0.033	<0.017
	17,18-Jul-02	0.027	<0.017	0.440	<0.017	<0.033	<0.017
	22,23-Oct-02	<0.170	<0.170	5.900	<0.170	<0.330	<0.170
	19-Feb-03	<0.130	<0.130	4.100	<0.130	<0.250	<0.130
	29-Jul-03	0.150	0.220	4.700	<0.130	<0.250	<0.130
	29-Jan-04	<0.310	<0.310	7.700	<0.310	<0.630	<0.310
	4-Aug-04	<0.500	<0.500	6.900	<0.500	<1.0	<0.500
2-Feb-05	<0.063	<0.063	1.100	<0.063	<0.130	<0.063	
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
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

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. Well LFR-4 was inaccessible during the Third Quarter 2004 Monitoring Event.

Table 6
Historical In-Situ and Ex-Situ Analyses Results for Bioattenuation Parameters
in Groundwater Samples
at the Former Glovatorium Site
3815 Broadway, 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						11.0000	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	2.4000		-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	13.0000		
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	7.6000	-28	
B-7 Field	26-Jul-01	1.98	7.3	0.0	8.0	11.60	7.0000	-40	
B-8 field	31-Jan-01	0.45						58	
B-10	10-Aug-00			< 0.05	< 0.05	5.70	10.0000	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	6.7000		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		1.3
B-10-field	31-Jan-01	0.46						64	
B-10 Field	11-Jun-01	0.90	0.0	0.0	0.0	1.25	3.9000	-8	NM
B-10 Field	26-Jun-01	1.87	1.3	0.0	3.0	6.20	5.6000	-22	
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	0.02	0.0002	152	NM
	26-Jul-01	1.93	0.0	3.9	60.0	0.00	0.0160	233	
GW-2 field	Not En. Sample						0.0009		
	31-Jan-02	2.80	0.0	0.8	45.0	0.36	0.0069	179	NM
	16,17-Apr-02	1.76	0.0	4.7	70.0	0.09	0.0003	198	
	17,18-Jul-02	1.39	0.6	0.0	69.0	0.00	0.0021	161	
	22,23-Oct-02	3.86	0.6	11.5	40.0	0.07	0.0007	166	
	19-Feb-03	7.24	0.1	10.3	49.0	0.03	0.0012	169	
	29-Jul-03	4.21	0.2	0.0	44.0	0.00	0.0007	47	
	28-Jan-04	6.02	0.0	3.3	56.0	0.00	0.00046	143	
	4-Aug-04	8.27	0.0	0.0	27.0	0.00	0.00035	115	
	2-Feb-05	8.41	0.0	0.0	40.0	0.00	<0.0050	76	
GW-3	11-Aug-00						< 0.0005	395	
GW-3-field	11-Aug-00	0.72		1.0	46.0				
GW-3-field	1-Nov-00	7.76						81	
	29-Jan-01	8.80					0.0120		
GW-3-field	1-Feb-01	8.99						235	
	27-Apr-01	2.90	0.0	0.7	30.0	0.00	0.0150	212	NM
	26-Jul-01	2.48	0.0	2.4	52.0	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	0.00	0.0081	163	
	16,17-Apr-02	7.55	0.0	4.2	59.0	0.00	0.0006	133	
	17,18-Jul-02	3.50	0.0	0.0	47.0	0.22	0.0100	155	
	22,23-Oct-02	2.19	0.0	1.6	33.0	0.00	0.0007	178	
	19-Feb-03	5.28	0.4	4.0	43.0	0.02	0.0007	123	
	29-Jul-03	6.12	0.0	0.0	31.0	0.00	0.0005	96	
	28-Jan-04	4.21	0.0	0.8	61.0	0.00	0.00042	141	
	3-Aug-04	10.20	0.0	0.0	41.0	0.00	0.00028	84	
	2-Feb-05	3.97	0.5	0.0	12.0	0.00	<0.0050	84	
GW-4-field	30-Jan-01	0.83						67	
GW-4-field	26-Jul-01	2.59	0.2	10.5	25.0	1.29	0.0028	-3	
GW-4-field	18-Oct-01	1.00	0.1	0.0	0.0	4.80	4.8000	-84	NM
GW-4	31-Jan-02	0.90	0.8	0.0	0.0	8.00	3.5000	-91	
	16,17-Apr-02	0.41	0.1	5.2	0.0	5.70	4.7000	-2	
	17,18-Jul-02	2.38	3.0	0.0	0.0	>3.3	4.6000	-68	
	22,23-Oct-02	NM	NM	NM	NM	NM	0.3000	NM	
	19-Feb-03	7.76	0.4	5.4	0.0	3.30	2.3000	-57	
	30-Jul-03	5.38	6.1	0.0	0.0	3.30	1.3000	-141	
	28-Jan-04	2.17	5.9	0.0	0.0	3.30	0.2200	-73	
	3-Aug-04	10.35	0.9	0.0	0.0	3.30	3.2000	-113	
	1-Feb-05	2.97	0.8	0.0	0.0	1.53	1.2000	93	

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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)
MW-11	10-Aug-00			2.8	63.0	< 0.1	< 0.0005	476	
MW-11-field	10-Aug-00	2.52		4.1	67.0				
	1-Nov-00	4.10	< 0.010	15.0	90.0	< 0.1	0.0000		130
MW-11-field	1-Nov-00	4.01		3.3	73.0	0.00		87	
MW-11-field	1-Nov-00	3.97		27.3	74.0	0.00		319	
MW-11 Field	31-Jan-01	6.30	< 0.010	15.0	94.0	< 1.0	0.0001		1.1
MW-11 Field	26-Apr-01	7.40	0.0	6.8	52.0	0.00	0.0014	229	NM
MW-11 Field	26-Jul-01	1.85	0.0	5.2	77.0	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	0.00	0.0077	218	
	16,17-Apr-02	3.18	0.0	2.8	88.0	0.00	0.0092	242	
	17,18-Jul-02	2.82	0.0	4.1	79.0	0.00	0.0088	357	
	22,23-Oct-02	4.47	0.0	3.7	69.0	0.00	0.0025	118	
	18-Feb-03	5.65	0.6	2.3	73.0	0.00	0.0022	304	
	30-Jul-03	3.80	0.1	0.0	54.0	0.00	0.0010	224	
	28-Jan-04	7.32	0.0	0.0	80.0	0.00	0.0200	130	
	3-Aug-04	10.40	0.0	0.0	77.0	0.00	0.0028	185	
	1-Feb-05	6.99	1.7	0.0	52.0	0.00	<0.0050	91	
LFR-1	9-Aug-00							462	
	11-Aug-00						0.0096		
LFR-1-field	9-Aug-00	3.63		5.5	30.0				1.5
	30-Oct-00	2.70	0.0	39.0	42.0	< 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	51.0	<1.0	0.0001		0.43
LFR-1-field	29-Jan-01	3.78	0.0		36.0	0.00		383	
LFR-1 Dup	29-Jan-01	4.60	<0.01	<0.10	50.0	<1.0	0.0000		0.32
	26-Apr-01	3.20	0.0	12.9	16.0	0.00	0.0003	224	NM
	26-Jul-01	1.07	0.0	8.0	25.0	0.01	0.0084	238	
LFR-1 field	18-Oct-01	1.03	0.0	6.9	24.0	0.18	0.0054	119	NM
	31-Jan-02	1.80	0.3	5.5	31.0	0.00	0.0062	163	
	16,17-Apr-02	1.68	0.3	1.5	38.0	0.39	0.0030	240	
	17,18-Jul-02	0.00	0.0	6.1	3.0	0.07	0.0047	209	
	22,23-Oct-02	0.00	0.4	0.0	23.0	0.15	0.0008	265	
	18-Feb-03	7.76	0.0	4.3	30.0	0.00	0.0008	260	
	30-Jul-03	0.58	0.3	0.0	10.0	0.00	0.0004	190	
	29-Jan-04	3.12	0.5	0.0	67.0	0.00	0.0011	19	
	4-Aug-04	6.26	5.8	0.0	17.0	0.00	0.0010	62	
	2-Feb-05	5.24	0.0	0.0	1.0	0.00	0.0120	93	
LFR-2	11-Aug-00						6.6000	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	8.5000		
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	4.6000		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	14.0000	9	NM
	26-Jul-01	0.55	0.2	0.0	0.0	4.50	10.0000	-20	
LFR-2 field	18-Oct-01	0.43	0.0	0.0	0.0	6.50	11.0000	-75	NM
	31-Jan-02	1.00	0.0	2.6	19.0	1.81	11.0000	-14	
	16,17-Apr-02	0.00	0.0	1.7	0.0	7.20	16.0000	-6	
	17,18-Jul-02	0.00	13.9	0.0	0.0	7.20	9.6000	-64	
	22,23-Oct-02	0.00	10.7	0.5	0.0	3.30	4.7000	-82	
	18-Feb-03	0.42	9.0	0.0	0.0	3.30	9.6000	-53	
	30-Jul-03	0.00	3.0	0.0	0.0	3.30	8.7000	-85	
	4-Aug-04	4.78	1.6	0.0	0.0	3.30	6.2000	-93	
	1-Feb-05	1.77	12.1	0.0	0.0	1.79	11.0000	69	

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LFR-3	10-Aug-00			2.4	64.0	< 0.1	0.0005	464	
LFR-3 split	10-Aug-00							< 0.0005	
LFR-3-field	10-Aug-00	1.30		2.4	64.0				850
	1-Nov-00	4.70	0.0	8.8	74.0	< 1.0	0.0003		
LFR-3-field	1-Nov-00	0.58		1.8	57.0	0.00		75	
	31-Jan-01	4.10	<0.01	1.2	58.0	< 1.0	0.0004		
LFR-3-field	30-Jan-01	1.75		0.0	44.0	0.00		195	
LFR-3 Field	11-Jun-01	1.00	0.0	0.8	28.0	0.00	0.0086	201	NM
LFR-3 Field	26-Jul-01	1.29	0.4	0.0	51.0	0.60	0.0035	228	
LFR-3 Field	18-Oct-01	0.54	0.0	0.8	30.0	0.11	0.0093	139	NM
	31-Jan-02	0.80	0.4	2.6	32.0	0.00	0.0072	212	
	16,17-Apr-02	0.19	0.4	0.0	55.0	0.79	0.0096	228	
	17,18-Jul-02	0.00	0.2	1.7	42.0	0.00	0.0068	166	
	22,23-Oct-02	0.11	0.5	0.0	36.0	0.00	0.0035	186	
	19-Feb-03	1.10	0.5	0.0	19.0	0.54	0.0069	217	
	30-Jul-03	0.17	0.1	0.0	21.0	0.00	0.0069	167	
	29-Jan-04	1.39	0.0	0.0	0.0	3.30	0.0011	64	
	3-Aug-04	5.14	3.9	0.0	8.0	0.00	0.0054	175	
	2-Feb-05	2.74	0.0	0.0	0.0	0.00	<0.005	94	
LFR-4	11-Aug-00						0.0620	402	
LFR-4-field	11-Aug-00	1.13		0.7	1.0	0.14			1.1
	31-Oct-00	1.90	2.2	< 0.10	2.9	1.10	3.2000		
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	2.2000		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	7.0000	14	NM
LFR-4 Field	26-Jul-01	1.65	0.0	0.0	0.0	0.84	1.2000	18	
	16,17-Apr-02	0.00	1.0	2.6	6.0	4.80	12.0000	-4	
	17,18-Jul-02	0.79	6.8	0.0	0.0	>3.3	2.8000	3	
	22,23-Oct-02	0.00	4.0	0.0	0.0	2.55	1.3000	-63	
	19-Feb-03	0.50	6.8	0.0	18.0	3.30	4.4000	-41	
	30-Jul-03	0.28	5.1	0.0	0.0	3.30	3.9000	-49	
	29-Jan-04	1.64	5.0	0.0	0.0	0.52	4.0000	1	
	4-Aug-04	NM	NM	NM	NM	NM	NM	NM	
SOMA-1	18-Oct-01	4.19	0.3	0.2	33.0	0.52	0.1200	151	NM
	31-Jan-02	0.40	0.0	0.0	18.0	0.00	0.5800	141	NM
	16,17-Apr-02	0.00	0.0	0.6	31.0	0.10	0.8200	213	
	17,18-Jul-02	0.00	0.0	1.8	28.0	0.05	0.4400	149	
	22,23-Oct-02	0.00	0.7	0.0	4.0	0.00	0.6800	131	
	18-Feb-03	5.12	0.4	0.0	1.0	0.00	0.4100	258	
	30-Jul-03	0.00	0.4	0.0	1.0	0.00	0.9900	74	
	29-Jan-04	0.29	0.5	0.0	13.0	0.47	0.8500	133	
	3-Aug-04	4.44	0.0	0.0	25.0	0.00	0.5000	152	
	1-Feb-05	1.57	0.1	0.0	0.0	0.00	0.8300	137	
SOMA-2	18-Oct-01	0.57	0.0	0.4	0.0	40.00	6.6000	-89	NM
	31-Jan-02	0.70	3.8	0.8	0.0	9.00	13.0000	103	NM
	16,17-Apr-02	0.00	0.5	0.1	0.0	7.40	14.0000	-69	
	17,18-Jul-02	0.00	5.7	0.0	0.0	>3.3	9.4000	-87	
	22,23-Oct-02	0.35	1.7	2.8	15.0	3.30	2.2000	-98	
	19-Feb-03	3.17	1.9	1.7	0.0	2.89	2.4000	-72	
	30-Jul-03	2.71	1.0	0.0	0.0	0.83	1.0000	-53	
	28-Jan-04	4.52	0.2	0.0	0.0	1.46	1.7000	-8	
	4-Aug-04	7.06	0.4	0.0	0.0	0.31	1.4000	-33	
	2-Feb-05	1.17	8.4	0.0	0.0	3.30	13.0000	-95	

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SOMA-3	18-Oct-01	1.32	0.0	0.0	33.0	0.22	1.0000	2	NM
	31-Jan-02	1.00	22.0	2.0	54.0	0.62	0.4600	-71	NM
	16,17-Apr-02	2.60	0.0	0.6	42.0	0.77	0.4100	29	
	17,18-Jul-02	0.97	10.9	0.0	23.0	>3.3	0.9400	-51	
	22,23-Oct-02	0.30	2.7	0.1	7.0	3.26	4.2000	-98	
	19-Feb-03	0.18	0.0	0.0	0.0	3.30	9.0000	-88	
	30-Jul-03	0.00	2.0	0.0	0.0	3.30	8.7000	-106	
	29-Jan-04	2.30	3.5	0.0	0.0	3.30	8.4000	-85	
	4-Aug-04	5.35	0.0	0.0	0.0	3.30	6.5000	-105	
	2-Feb-05	3.66	0.3	0.0	0.0	0.00	2.7000	-73	
SOMA-4	18-Oct-01	0.83	4.0	22.0	17.0	0.22	1.2000	88	NM
SOMA-5	4-Aug-04	5.65	0.0	0.0	0.0	0.23	1.7000	-143	
	2-Feb-05	2.40	1.5	0.0	0.0	3.30	3.0000	-81	

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 Microseep Laboratory.

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

(1) Sample concentration was too dilute to be reproducibly measured using the Hach spectrophotometer.

(2) Field measurement was not recorded.

NM: Not Measured. Well LFR-4 was inaccessible during the Third Quarter 2004 monitoring event.

FIGURES



approximate scale in feet

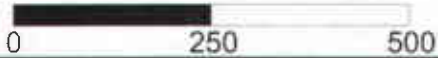


Figure 1: Site vicinity map.

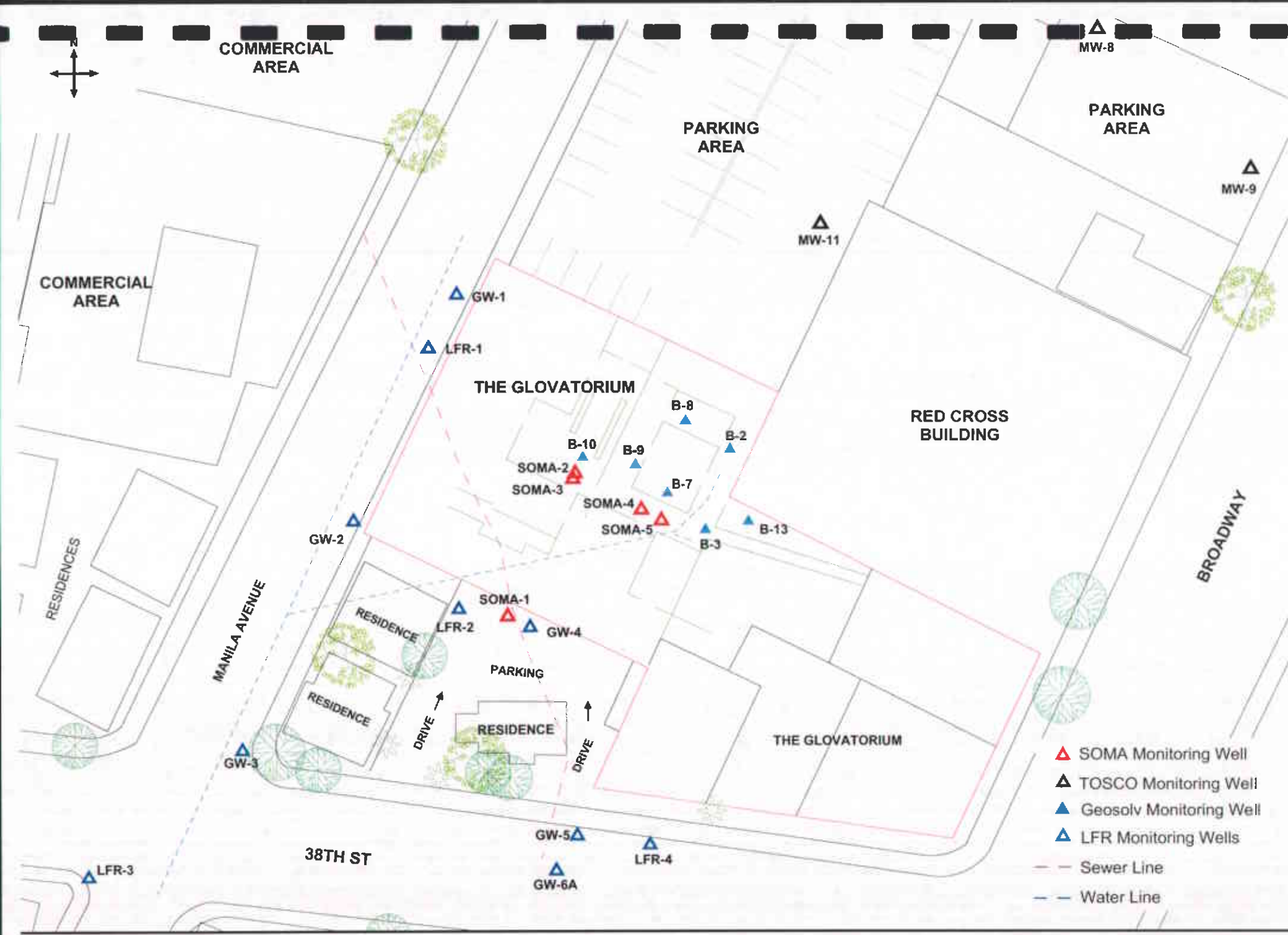
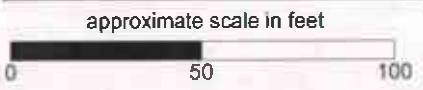


Figure 2: Map showing the approximate locations of groundwater monitoring wells.



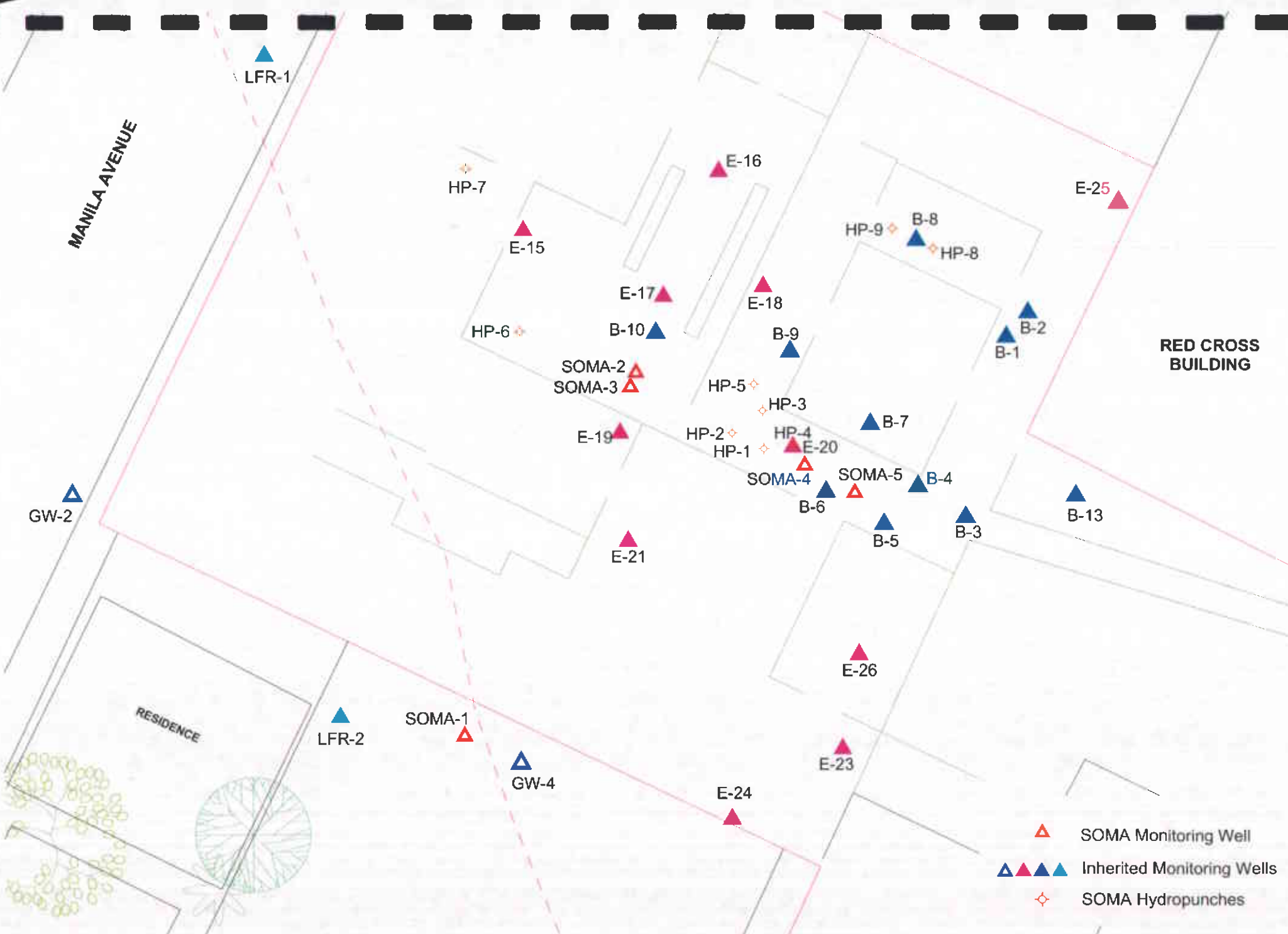


Figure 2a: Map showing the approximate locations of SOMA monitoring wells, SOMA hydropunches, and inherited monitoring locations within the former Glovatorium building.

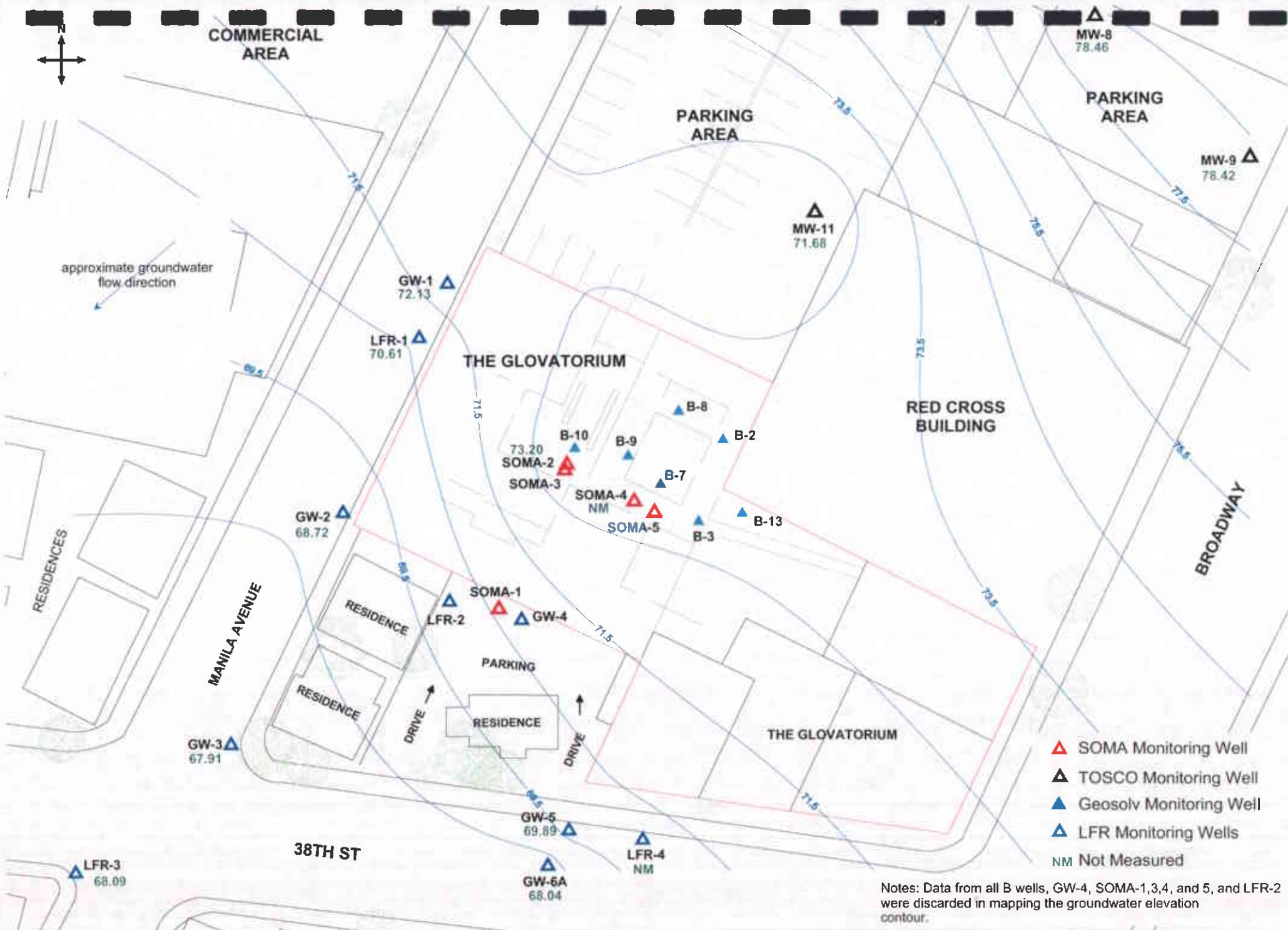


Figure 3: Groundwater elevation contour map in feet. February 2005.

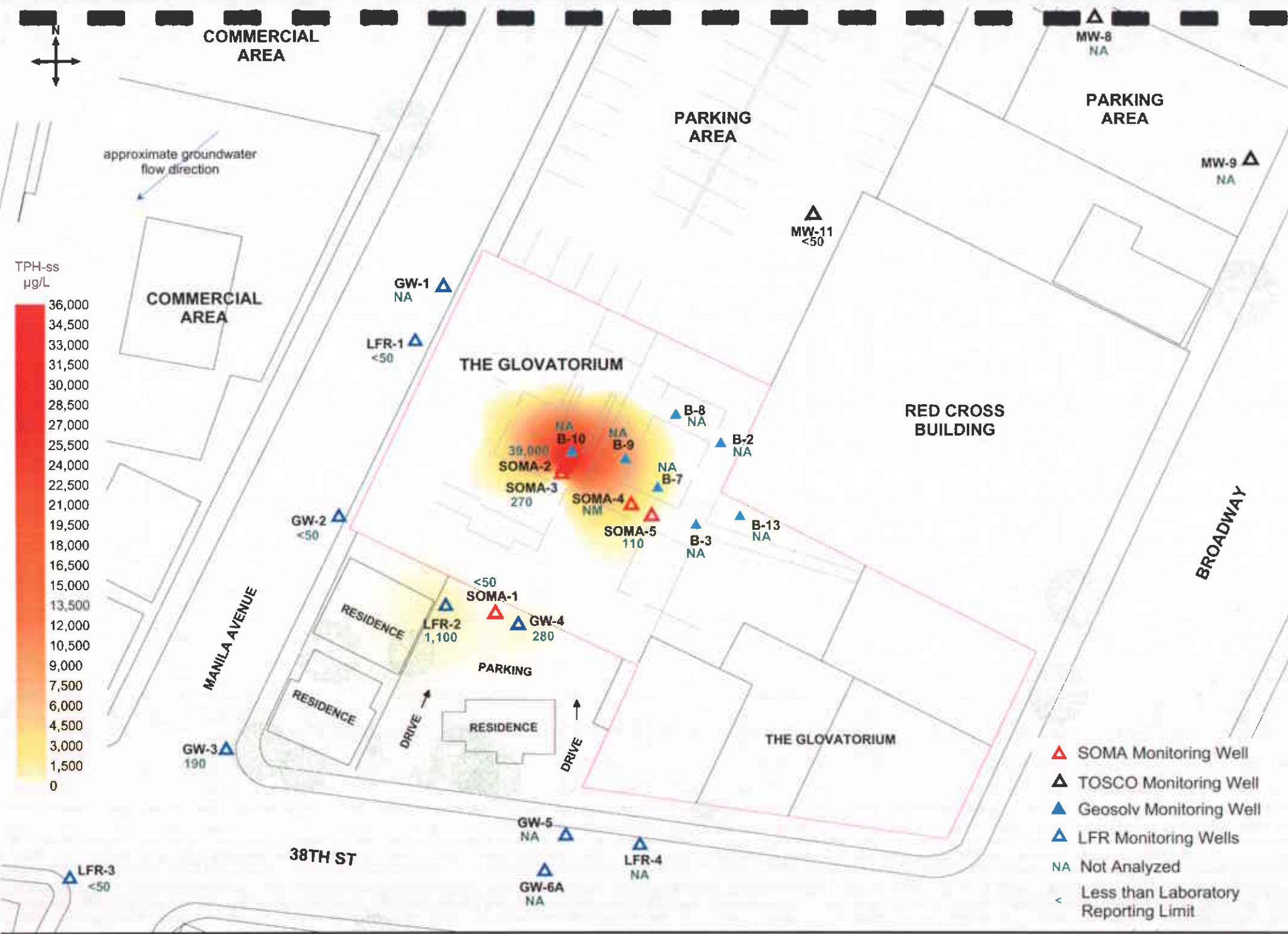


Figure 4: Contour map of TPH-ss concentrations in groundwater. February 2005.

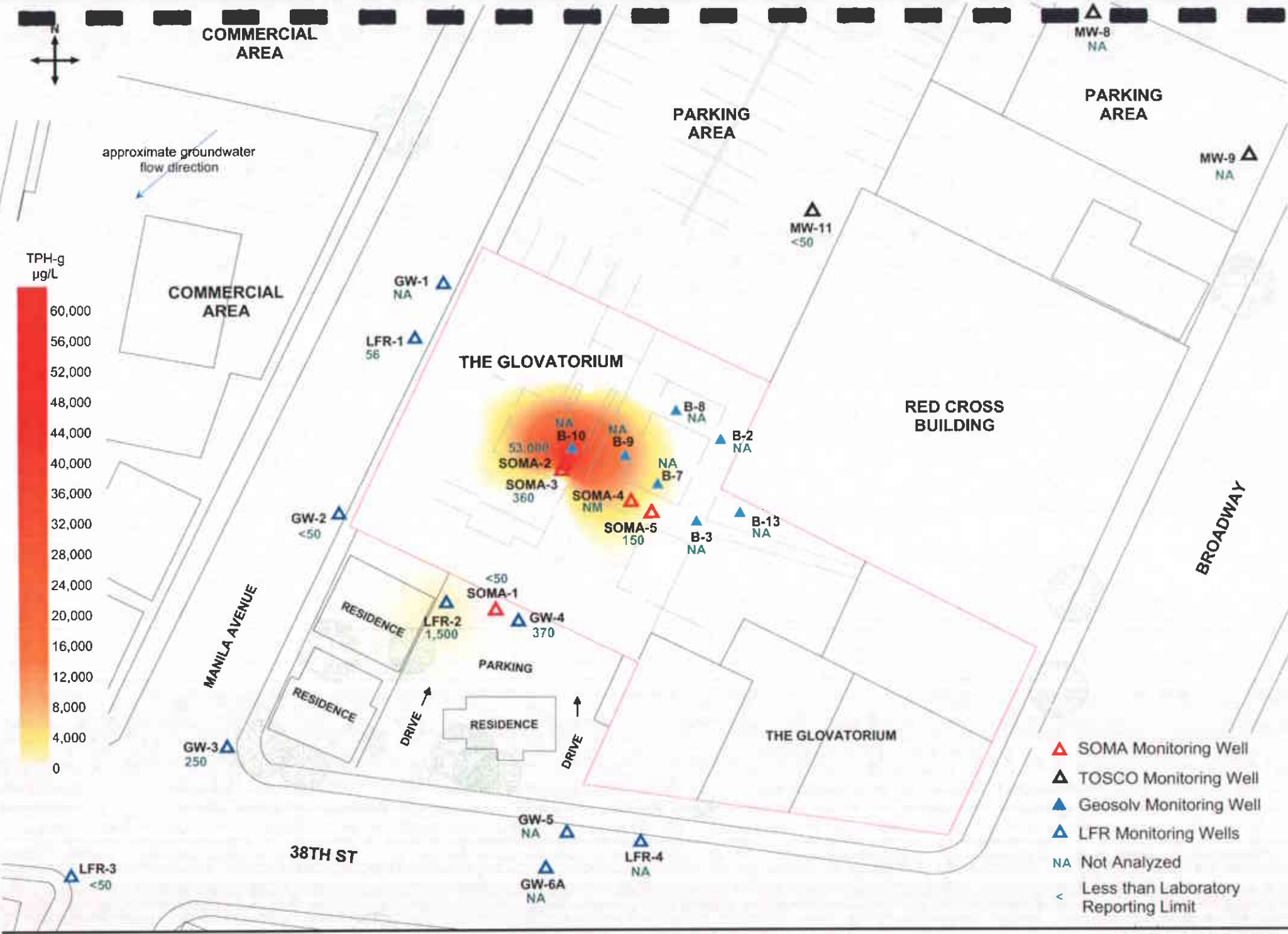


Figure 5: Contour map of TPH-g concentrations in groundwater. February 2005.

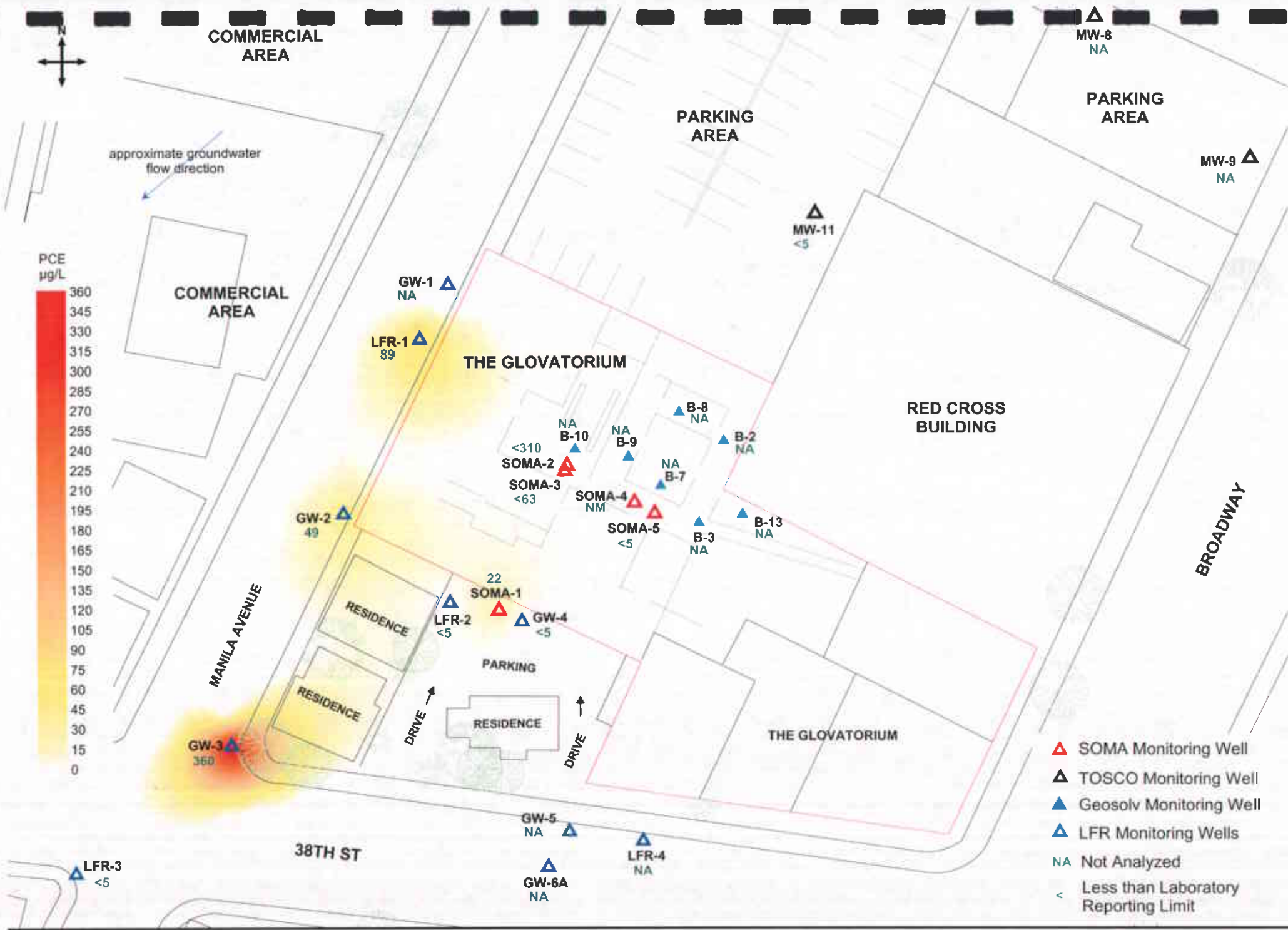


Figure 6: Contour map of PCE concentrations in groundwater. February 2005.

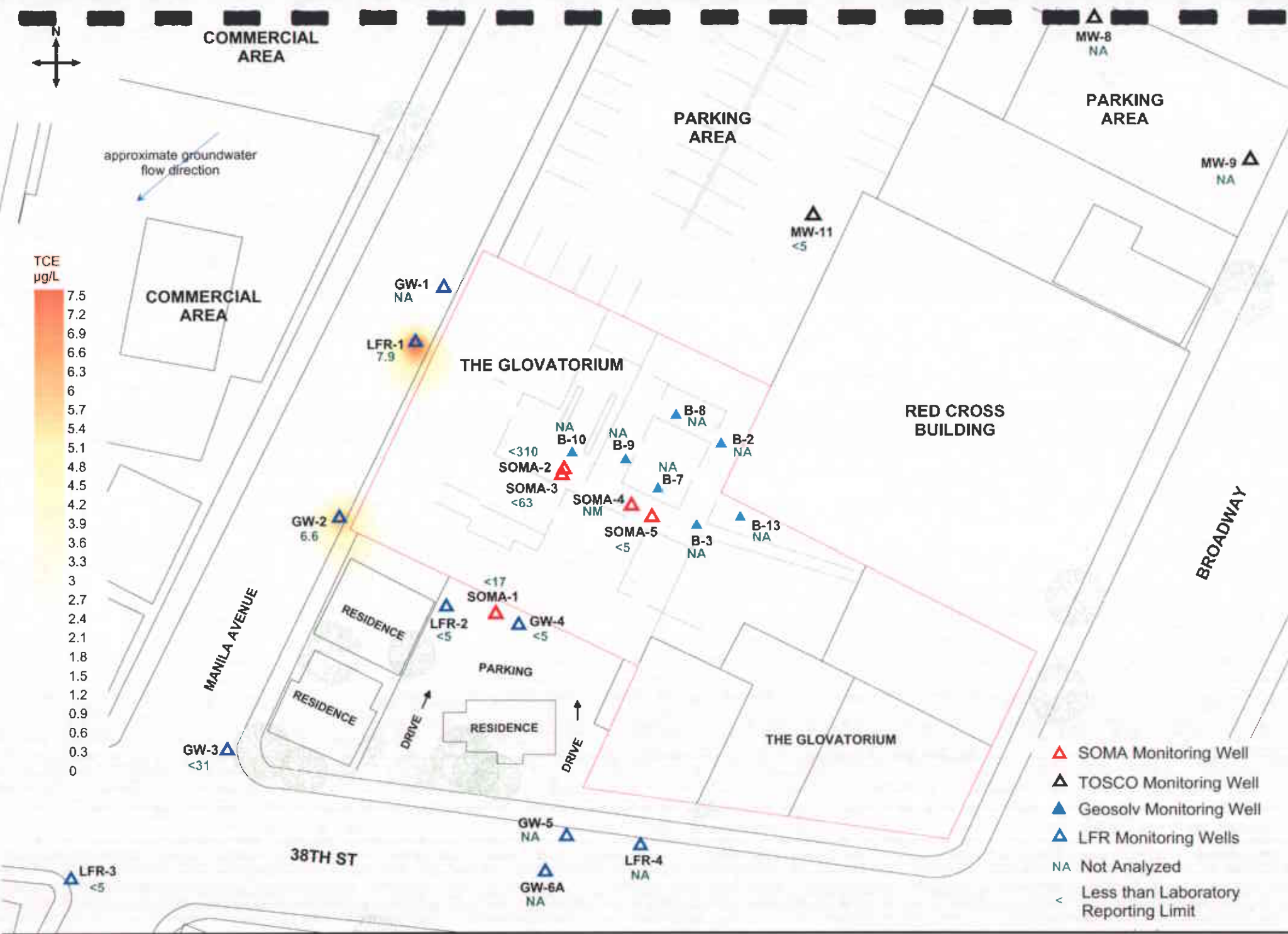


Figure 7: Contour map of TCE concentrations in groundwater. February 2005.

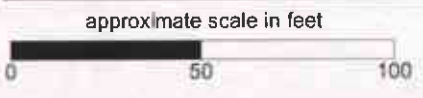
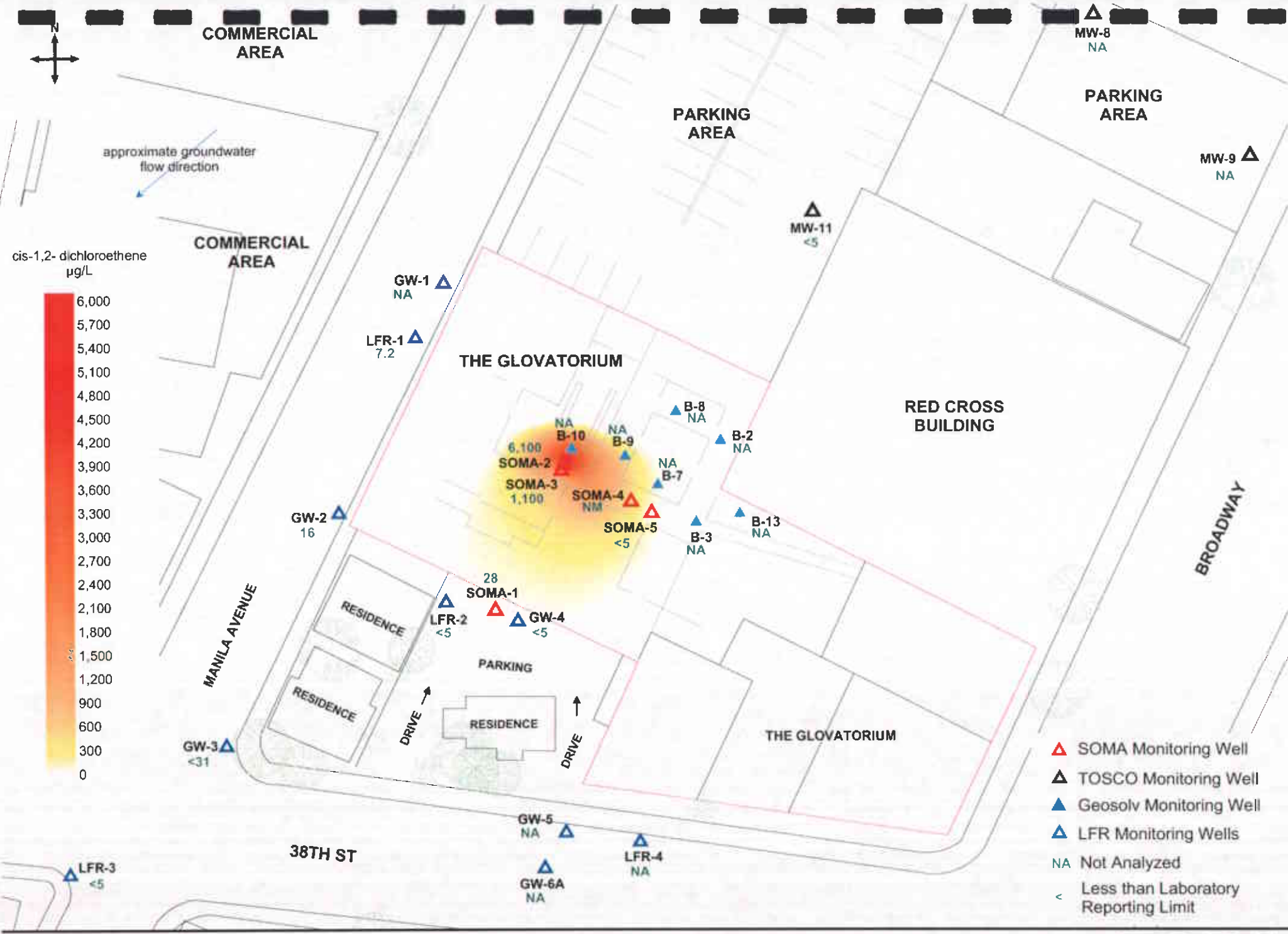


Figure 8: Contour map of cis-1,2-dichloroethene concentrations in groundwater. February 2005.

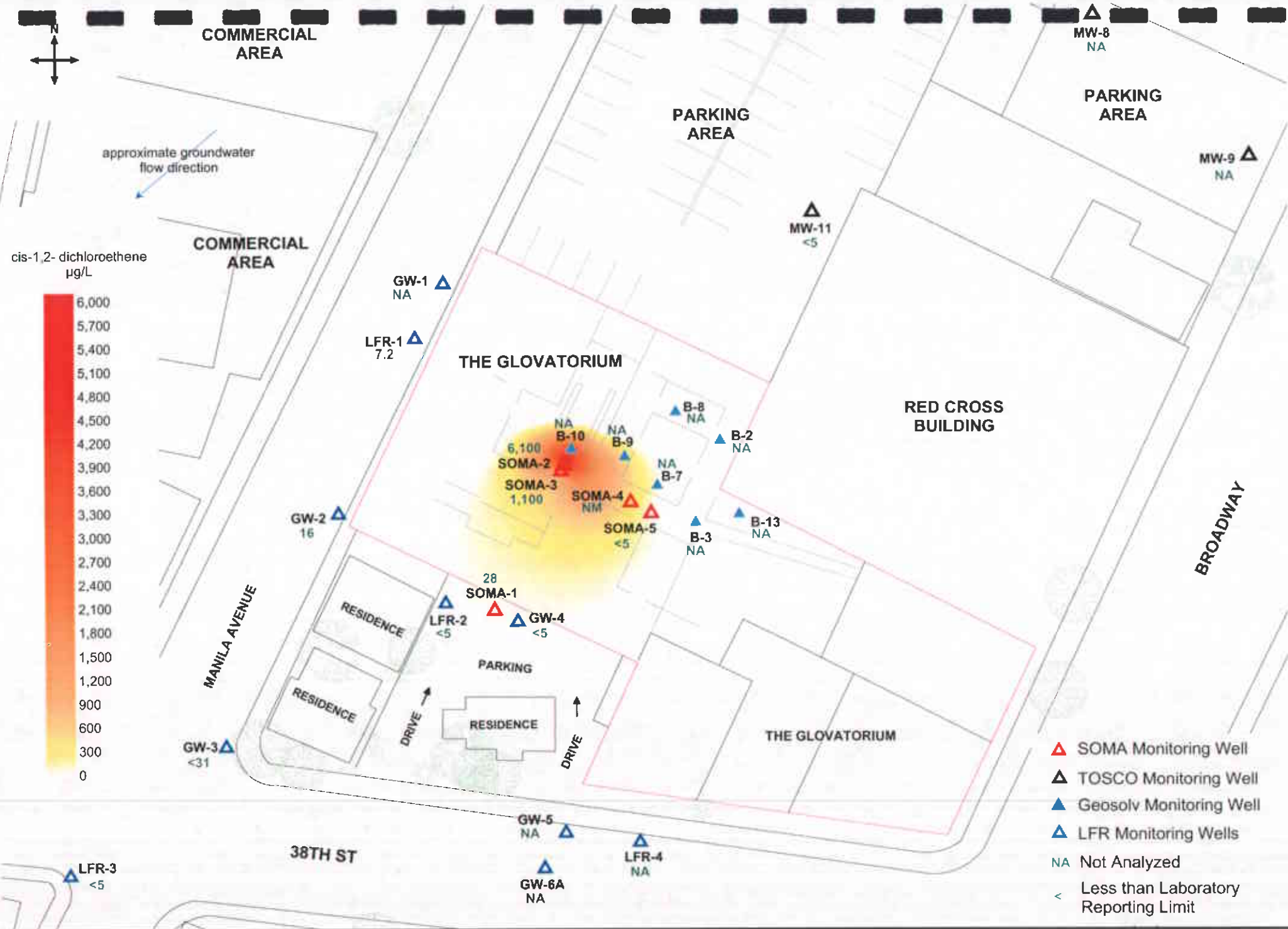


Figure 8: Contour map of cis-1,2-dichloroethene concentrations in groundwater. February 2005.

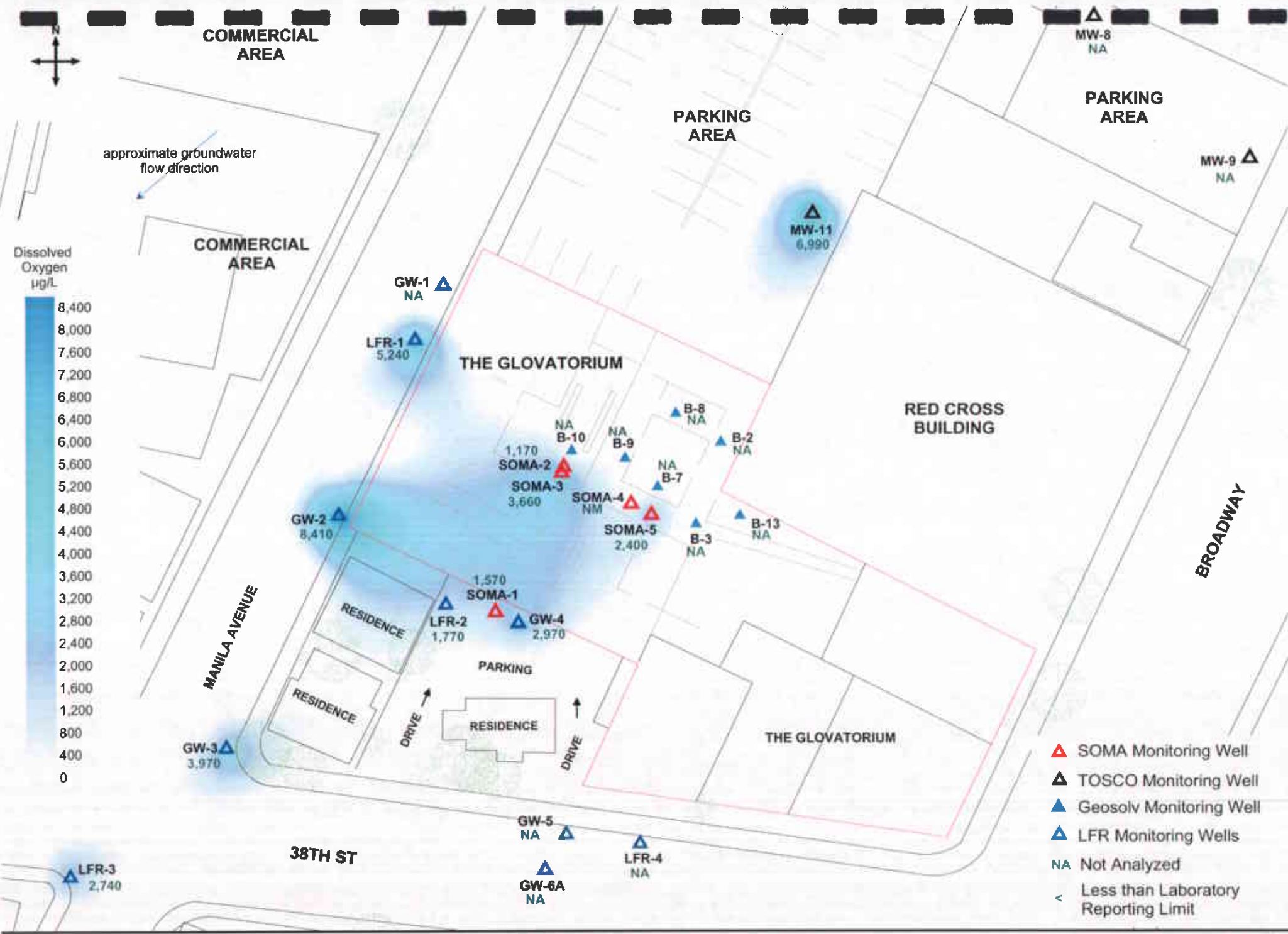


Figure 9: Contour map of dissolved oxygen concentrations in groundwater. February 2005.

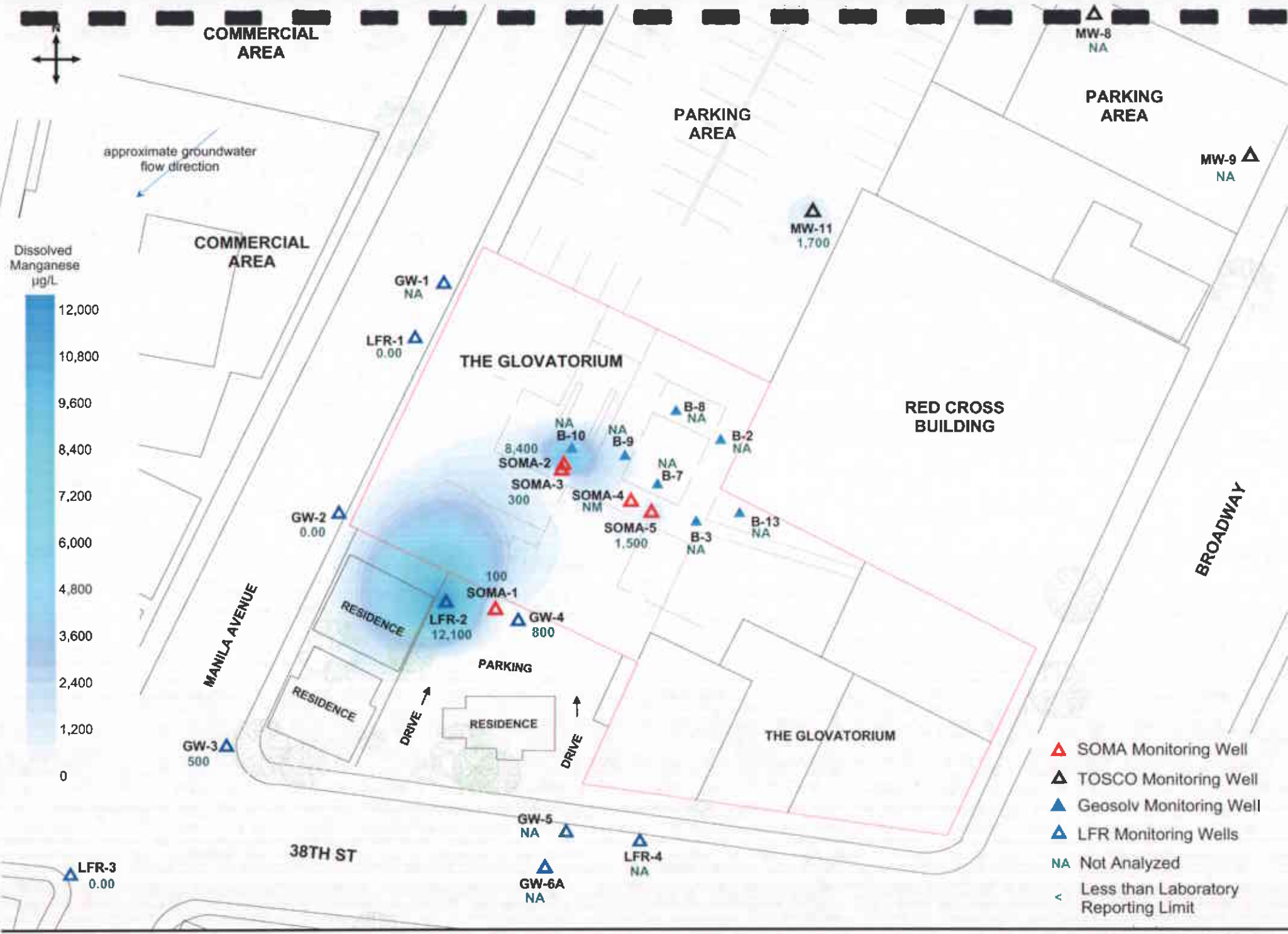


Figure 10: Contour map of dissolved manganese concentrations in groundwater. February 2005.

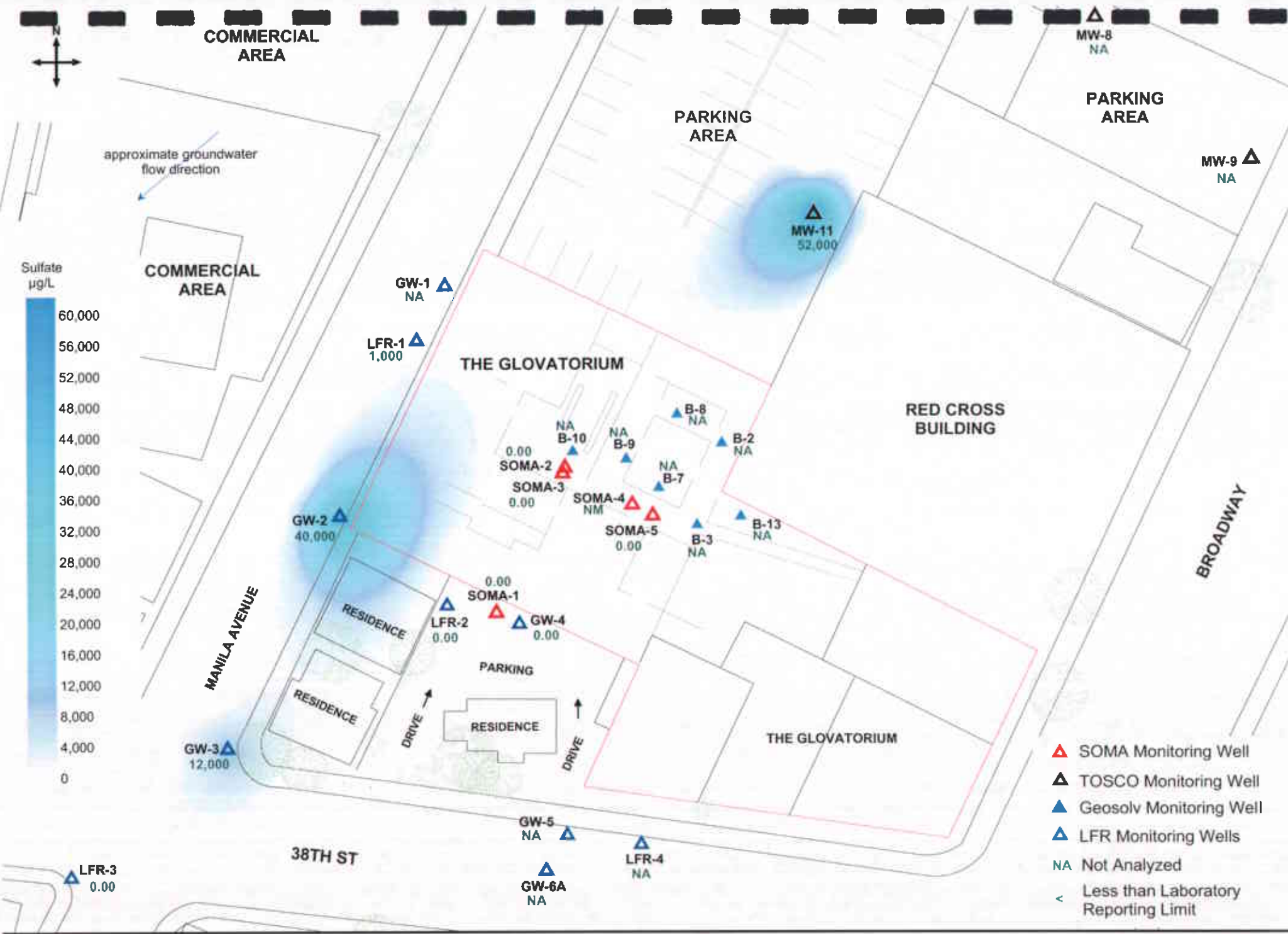


Figure 11: Contour map of sulfate concentrations in groundwater. February 2005.

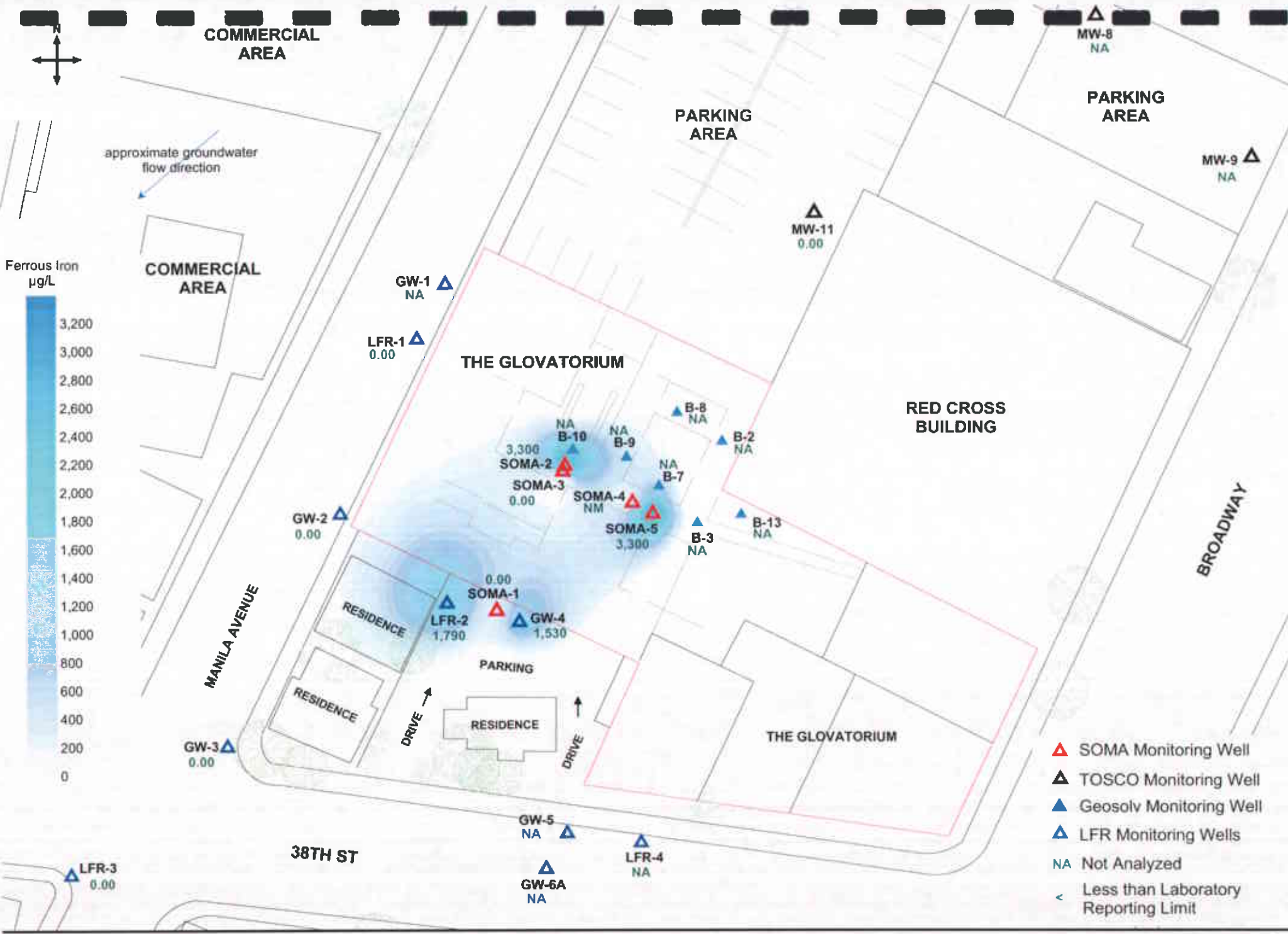


Figure 12: Contour map of ferrous iron concentrations in groundwater. February 2005.

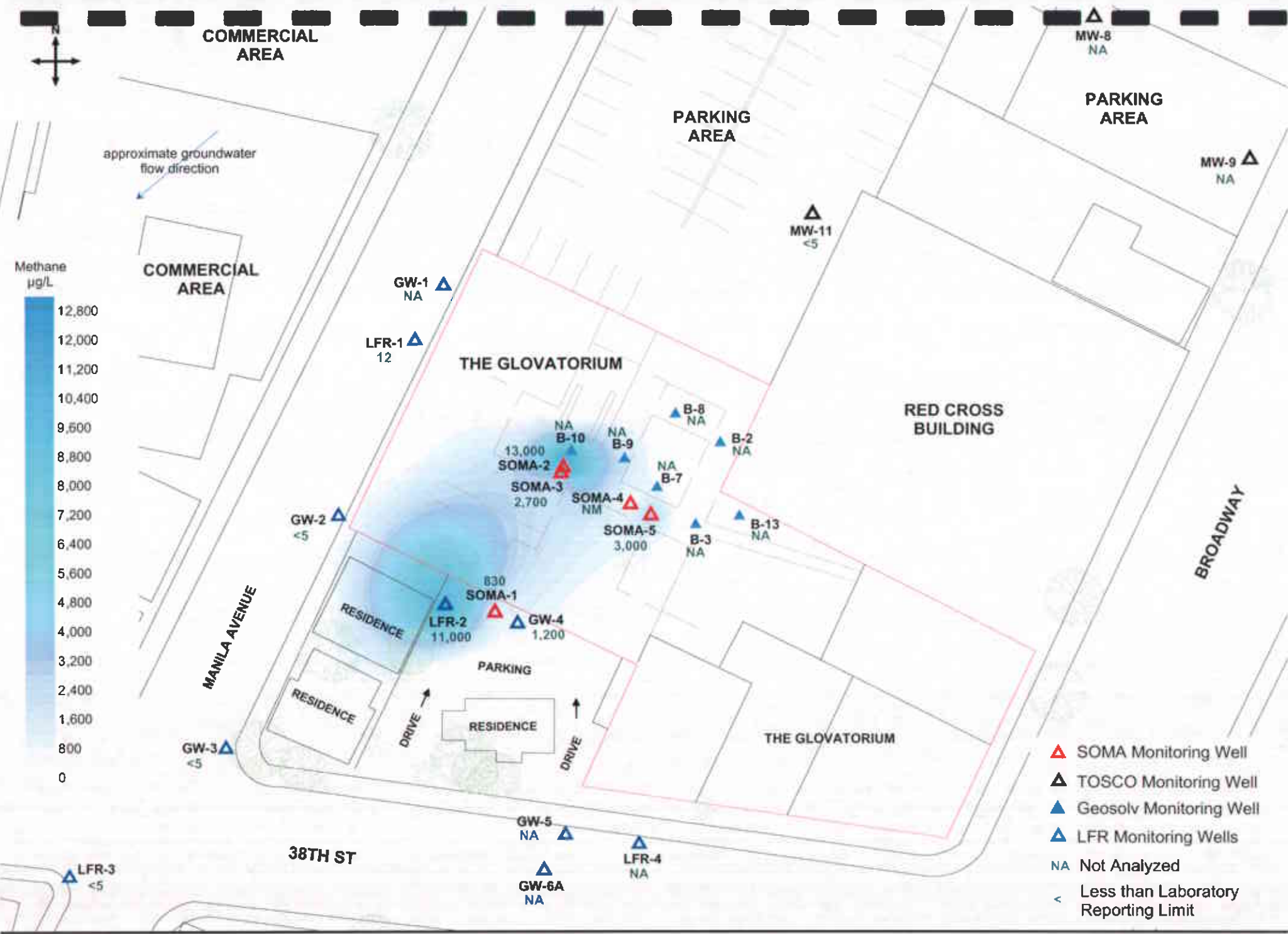


Figure 13: Contour map of methane concentrations in groundwater. February 2005.

APPENDIX A

Field Notes, Field Measured Physical and Chemical Parameter Values



Well Name: GN-2
 Casing Diameter: 3/4 inch
 Depth of Well: 20 feet
 Top of Casing Elevation: 79.14 feet
 Depth to Groundwater: 10.42 feet
 Groundwater Elevation: 68.72 feet
 Water Column Height: 9.58 feet
 Purged Volume: .5 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February 2, 2005
 Sampler: Tony Perini *EPIC FLOW*
 John Lohman

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)
2 ⁰⁵	START PURGE						
2 ⁰⁶	.25	6.91	18.48	9.34	528	128	71
2 ⁰⁷	.5	6.82	18.34	8.41	503	182	76
2 ⁰⁸	DEQ						
2 ¹²	SAMPLED						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
2 ⁰⁹	∅	∅	∅	∅	4∅	∅

Notes:



Well Name: G.W. 3
 Casing Diameter: 3/4 inch
 Depth of Well: 20 feet
 Top of Casing Elevation: 77.92 feet
 Depth to Groundwater: 10.01 feet
 Groundwater Elevation: 67.91 feet
 Water Column Height: 9.99 feet
 Purged Volume: 1 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February 2, 2005
 Sampler: Tony Perini *ERIC JENNINGS*
 John Lohman

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)
2 ³²	START PUMP						
2 ³³	.2	6.40	19.76	6.30	456	128	85
2 ³⁴	.4	6.35	19.19	5.31	454	150	85
2 ³⁵	.6	6.33	18.91	4.65	440	157	87
2 ³⁶	.8	6.30	19.08	4.23	443	165	80
2 ³⁷	1	6.28	19.39	3.97	445	256	84
2 ⁴²	DRY SAMPLED						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
2 ³⁸	0	0	0	0	12	0.5

Notes:



Well Name: GW4
Casing Diameter: 3/4 inch
Depth of Well: 12 feet
Top of Casing Elevation: 82.37 feet
Depth to Groundwater: 7.97 feet
Groundwater Elevation: 74.40 feet
Water Column Height: 4.03 feet
Purged Volume: 800 gallons
ml

Project #: 2511
Address: 3815 Broadway
Oakland, California
Date: February 1-~~4~~ 2005
Sampler: Tony Perini
John Lohman

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

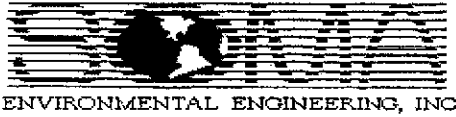
Color: No Yes Describe: _____
Sheen: No Yes Describe: _____
Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons) ^{ml}	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
4 PM	START PURGE						
4:01 PM	200	7.07	13.99	5.17	378	313	92
4:02 PM	600	6.80	13.25	2.97	382	356	93
4:03 PM	800						
4:05 PM	sampled						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
4:06 PM	1.53	3.30	0	0	0	0.6

Notes:



Well Name: MW 11
 Casing Diameter: 2 inch
 Depth of Well: 18.94 feet
 Top of Casing Elevation: 84.13 feet
 Depth to Groundwater: 12.45 feet
 Groundwater Elevation: 71.68 feet
 Water Column Height: 6.49 feet
 Purged Volume: 4 gallons
407

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February 14, 2005
 Sampler: Tony Perini
 John Lohman

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)
4:46 PM	start purge						
4:47 PM	1	6.61	20.42	9.50	847	105	+47
4:49 PM	2.5	6.43	20.55	6.99	856	124	+91
4:50 PM	4	dried					
4:55 PM	SAMPLES						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
5:00 PM	0	0	0	0	52	1.7

Notes:



Well Name: LFR-1
 Casing Diameter: 2 inch
 Depth of Well: 19 feet
 Top of Casing Elevation: 74.97 feet
 Depth to Groundwater: 9.36 feet
 Groundwater Elevation: 70.61 feet
 Water Column Height: 9.64 feet
 Purged Volume: 8 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February 2, 2005
 Sampler: ~~Tony Perini~~ Eric Jennings
 John Lohman

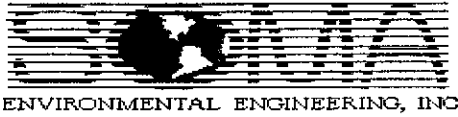
Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
140		START PURGE					
141	1	7.48	17.61	6.68	772	83.1	78
142	3	7.15	17.25	5.82	676	78.5	88
144	6	6.73	17.80	5.24	744	76.4	93
145	8	dry					
150		SAMPLED					

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
150	0	0	0	0	1	0

Notes:



Well Name: LEB-2
 Casing Diameter: 2 inch
 Depth of Well: 19 feet
 Top of Casing Elevation: 81.89 feet
 Depth to Groundwater: 9.25 feet
 Groundwater Elevation: 72.64 feet
 Water Column Height: 9.75 feet
 Purged Volume: 7 gallons
dry

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February 1-2005
 Sampler: Tony Perini
 John Lohman

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)
3:20 PM	Start Purge						
3:21 PM	1	6.80	17.65	4.64	479	125	+130
3:23 PM	3	6.50	17.31	2.73	506	120	+125
3:26 PM	6	6.46	17.68	1.77	559	97.4	+69
3:27 PM	7	dry					
3:30 PM	SAMPLES						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
3:35 PM	1.79	2.25	0	0.0	0	12.1

Notes:



Well Name: LFR-3
 Casing Diameter: 2 inch
 Depth of Well: 22 feet
 Top of Casing Elevation: 77.96 feet
 Depth to Groundwater: 9.87 feet
 Groundwater Elevation: 68.09 feet
 Water Column Height: 12.13 feet
 Purged Volume: 11 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February 2, 2005
 Sampler: ~~Tony Perini~~ ERIC JENNICK
 John Lohman

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

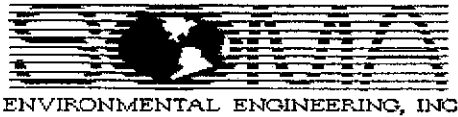
Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
3 ⁰⁹	START	PURGE					
3 ¹⁰	1	6.58	19.87	5.39	338	521	96
3 ¹¹	3	6.40	19.41	4.04	343	188	96
3 ¹²	5	6.28	19.65	2.87	355	169	96
3 ¹³	7	6.24	19.81	3.07	357	192	96
3 ¹⁴	9	6.20	19.96	3.02	363	258	95
3 ¹⁵	11	6.17	20.06	2.74	381	999	94

3¹⁹ SAMPLED

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
3 ¹⁷	0	12	0	0	0	0

Notes:



Well Name: SOMA 1
 Casing Diameter: 4 inch
 Depth of Well: 40 feet
 Top of Casing Elevation: 81.64 feet
 Depth to Groundwater: 12.56 feet
 Groundwater Elevation: 69.08 feet
 Water Column Height: 27.44 feet
 Purged Volume: 25 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February 18, 2005
 Sampler: Tony Perini
 John Lohman

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)
2:18 PM	started purging well						
2:25 PM	8	6.19	17.81	1.97	983	999	+142
2:31 PM	16	6.23	17.62	1.66	979	425	+140
2:38 PM	24	6.26	17.70	1.57	985	611	+137
2:45 PM	SAMPLES						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
2:50 PM	0	0	0	0.0	0	0.10

Notes:



Well Name: COMA-2
 Casing Diameter: 2 inch
 Depth of Well: 20 feet
 Top of Casing Elevation: 81.39 feet
 Depth to Groundwater: 8.19 feet
 Groundwater Elevation: 73.20 feet
 Water Column Height: 17.81 feet
 Purged Volume: 11 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February 2, 2005
 Sampler: Tony Perini ERIC JENNINGS
 John Lohman

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: _____
 Sheen: No Yes Describe: sulfate
 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 ⁴⁸	START	PURGE					
11 ⁴⁹	1	6.61	15.81	2.03	1290	32.1	-35
11 ⁵¹	3	6.57	15.81	1.53	1290	12.1	-54
11 ⁵³	6	6.54	15.91	1.24	1310	15.2	-79
11 ⁵⁷	19	6.52	15.96	1.17	1310	20	-95
12 ⁰³	SAMPLED						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
12 ⁰⁴	3.3	3.3	0	0	0	8.4

Notes:



Well Name: SOMA 3
 Casing Diameter: 3.4 inch
 Depth of Well: ~~30~~ 30 feet
 Top of Casing Elevation: 8.42 feet
 Depth to Groundwater: 10.37 feet
 Groundwater Elevation: 71.05 feet
 Water Column Height: 19.63 feet
 Purged Volume: .75 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February 2, 2005
 Sampler: Tony Perini *ERIC JENNINGS*
 John Lohman

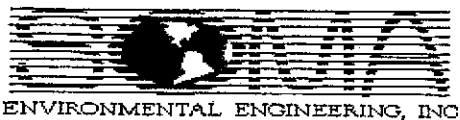
Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	pH	Temp (°C)	D.O. (mg/L)	E.C. (µs/cm)	Turbidity (NTU)	ORP (mV)
11:29	<i>1.75</i>	<i>6.02</i>					
11:30	.25	7.00	16.70	4.39	988	118	-81
11:32	.50	6.77	16.57	2.31	982	209	-78
11:30	.75	6.62	16.64	3.66	968	128	-73
11:30	DRY						
11:35	SAMPLED						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
11:36	0	.15	0	0	0	.3

Notes:



Well Name: SOMAS
 Casing Diameter: 3/4 inch
 Depth of Well: 26 feet
 Top of Casing Elevation: 81.50 feet
 Depth to Groundwater: 2.58 feet
 Groundwater Elevation: 78.92 feet
 Water Column Height: 23.42 feet
 Purged Volume: 1 gallons

Project #: 2511
 Address: 3815 Broadway
 Oakland, California
 Date: February ~~1~~ 2, 2005
 Sampler: Tony Perini *ERIC STANLEY*
 John Lohman

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)
10 ⁴⁵	START PURGE				549	76.5	
10 ⁴⁸	1	7.20	15.99	2.40	549	76.5	-81
10 ⁴⁹	DRY	7.20					
10 ⁵⁵	SAMPLED						

Time	Ferrous Iron (mg/L)	Total Iron (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Dissolved Manganese (mg/L)
10 ⁵⁰	330	330	0	0	0	9

Notes:

APPENDIX B

Chain of Custody Form and Laboratory Report
For the
First Semi-Annual Groundwater Monitoring Event



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

A N A L Y T I C A L R E P O R T

Prepared for:

SOMA Environmental Engineering Inc.
2680 Bishop Dr.
Suite 203
San Ramon, CA 94583

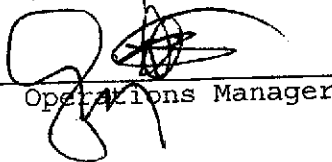
Date: 16-FEB-05
Lab Job Number: 177472
Project ID: 2511
Location: 3815 Broadway, Oakland

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.

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.



CASE NARRATIVE

Laboratory number: 177472
Client: SOMA Environmental Engineering Inc.
Project: 2511
Location: 3815 Broadway, Oakland
Request Date: 02/02/05
Samples Received: 02/02/05

This hardcopy data package contains sample and QC results for eleven water samples, requested for the above referenced project on 02/02/05. The samples were received cold and intact.

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

Response exceeding the instrument's linear range was observed for bromofluorobenzene (FID) in LFR 2 (lab # 177472-006) and SOMA 2 (lab # 177472-009); affected data was qualified with "b". High surrogate recoveries were observed for bromofluorobenzene (FID) in LFR 2 (lab # 177472-006) and SOMA 2 (lab # 177472-009); 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.

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878
 2323 Fifth Street
 Berkeley, CA 94710
 (510)486-0900 Phone
 (510)486-0532 Fax

Analyses

C&T LOGIN # 177472

Sampler: Tony Perini/John Lohman/Eric Jennings

Project No: 2511

Report To: Tony Perini

Project Name: 3815 Broadway, Oakland, CA

Company: SOMA Environmental

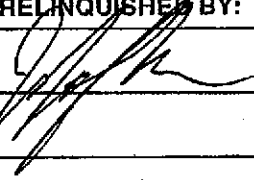
Turnaround Time: Standard

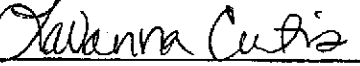
Telephone: 925-244-6600

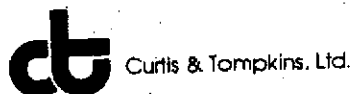
Fax: 925-244-6601

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative				TPHg (including Stoddard Solvent) 8260B	8260 (Full List)	Methane
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE			
-1	GW 2 GW 2	2:12PM 2/2/05		X		7	X				X	X	X
-2	GW 3	2:42PM 2/2											
-3	GW 4	4:05PM 2/1											
-4	MW 11	4:55 PM 2/1											
-5	LFR 1	1:50 2/2											
-6	LFR 2	3:30 2/1											
-7	LFR 3 *	3:19 2/2											
-8	SOMA 1	2:45 2/1											
-9	SOMA 2	12:03 2/2											
-10	SOMA 3	11:35 2/2											
-11	SOMA 5	10:55 2/2											

Notes:
 MtBE and BTEX constituents include on 8260B List
 EDF output required
 Intact/Cold Saw 2/2/05
 * Labels = LFR-2 (ID by time & date)
 Saw 2-2-05

RELINQUISHED BY:

 4:15PM 2/2/05
 DATE/TIME

RECEIVED BY:

 4:15pm 2-2-05
 DATE/TIME



Total Volatile Hydrocarbons

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	98840
Units:	ug/L	Received:	02/02/05

Field ID:	GW 2	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/02/05
Lab ID:	177472-001	Analyzed:	02/03/05

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

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	70-141
Bromofluorobenzene (FID)	101	80-143

Field ID:	GW 3	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/02/05
Lab ID:	177472-002	Analyzed:	02/03/05

Analyte	Result	RL
Gasoline C7-C12	250 H Y Z	50
Stoddard Solvent C7-C12	190 Z	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	70-141
Bromofluorobenzene (FID)	101	80-143

Field ID:	GW 4	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/01/05
Lab ID:	177472-003	Analyzed:	02/03/05

Analyte	Result	RL
Gasoline C7-C12	370 H Y	50
Stoddard Solvent C7-C12	280	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	70-141
Bromofluorobenzene (FID)	128	80-143

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range



Total Volatile Hydrocarbons

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	98840
Units:	ug/L	Received:	02/02/05

Field ID:	MW 11	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/01/05
Lab ID:	177472-004	Analyzed:	02/04/05

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

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	70-141
Bromofluorobenzene (FID)	90	80-143

Field ID:	LFR 1	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/02/05
Lab ID:	177472-005	Analyzed:	02/03/05

Analyte	Result	RL
Gasoline C7-C12	56 Y Z	50
Stoddard Solvent C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	70-141
Bromofluorobenzene (FID)	97	80-143

Field ID:	LFR 2	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/01/05
Lab ID:	177472-006	Analyzed:	02/03/05

Analyte	Result	RL
Gasoline C7-C12	1,500 H Y	50
Stoddard Solvent C7-C12	1,100	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	70-141
Bromofluorobenzene (FID)	215 *	>LR b 80-143

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range



Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	98840
Units:	ug/L	Received:	02/02/05

Field ID:	LFR 3	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/02/05
Lab ID:	177472-007	Analyzed:	02/03/05

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

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	70-141
Bromofluorobenzene (FID)	100	80-143

Field ID:	SOMA 1	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/01/05
Lab ID:	177472-008	Analyzed:	02/03/05

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

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	70-141
Bromofluorobenzene (FID)	105	80-143

Field ID:	SOMA 2	Diln Fac:	10.00
Type:	SAMPLE	Sampled:	02/02/05
Lab ID:	177472-009	Analyzed:	02/03/05

Analyte	Result	RL
Gasoline C7-C12	53,000 H Y	500
Stoddard Solvent C7-C12	39,000	500

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	70-141
Bromofluorobenzene (FID)	272 *	>LR b 80-143

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range



Total Volatile Hydrocarbons

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	98840
Units:	ug/L	Received:	02/02/05

Field ID:	SOMA 3	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/02/05
Lab ID:	177472-010	Analyzed:	02/03/05

Analyte	Result	RL
Gasoline C7-C12	360 H Y	50
Stoddard Solvent C7-C12	270	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	70-141
Bromofluorobenzene (FID)	123	80-143

Field ID:	SOMA 5	Diln Fac:	1.000
Type:	SAMPLE	Sampled:	02/02/05
Lab ID:	177472-011	Analyzed:	02/03/05

Analyte	Result	RL
Gasoline C7-C12	150 H Y Z	50
Stoddard Solvent C7-C12	110 Z	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	70-141
Bromofluorobenzene (FID)	105	80-143

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC281425	Analyzed:	02/03/05

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

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	70-141
Bromofluorobenzene (FID)	91	80-143

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 Z= Sample exhibits unknown single peak or peaks
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range

Chromatogram

Sample Name : 177472-002,98840,tvh+stodd
FileName : G:\GC05\DATA\0346006.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

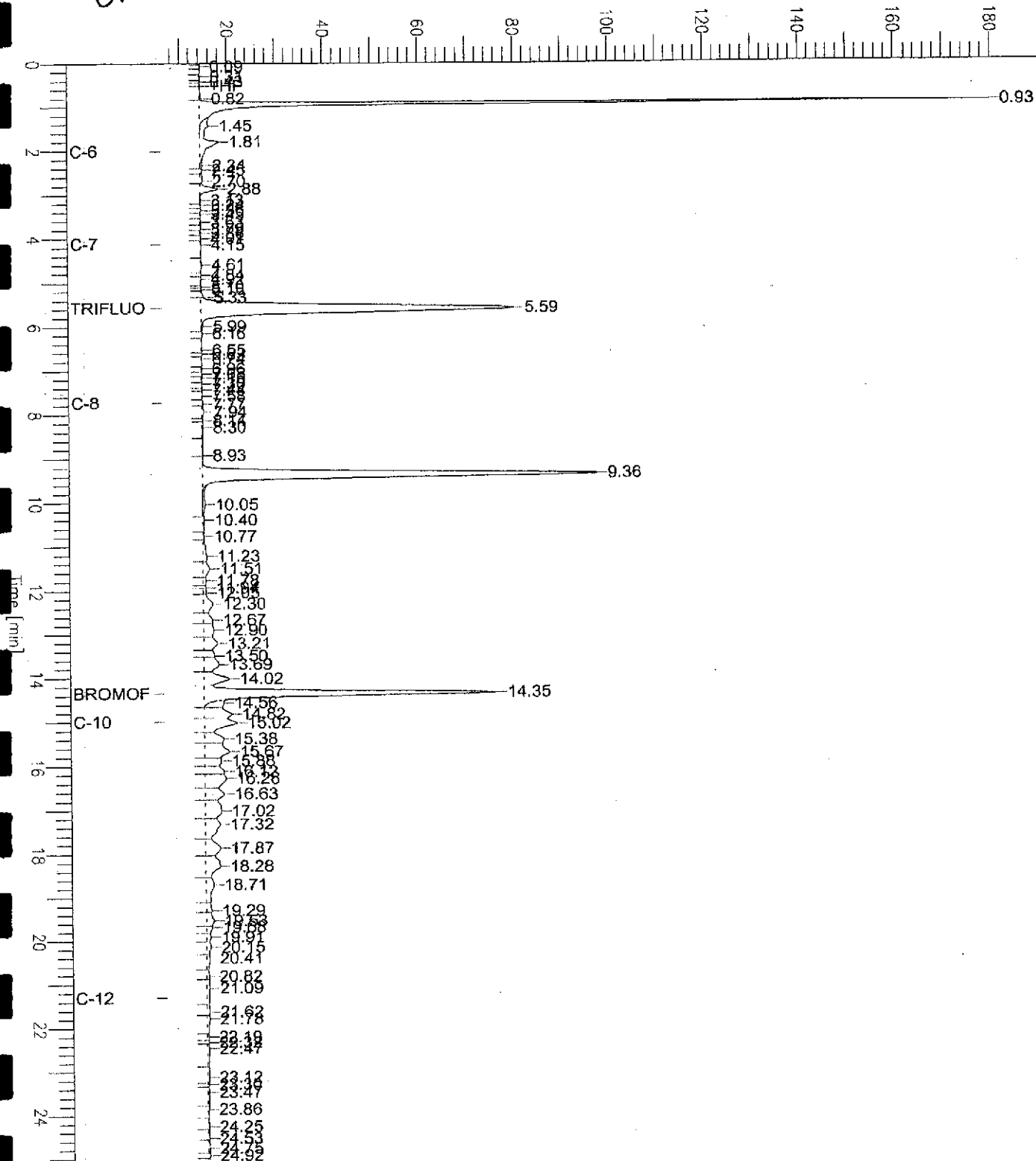
End Time : 25.00 min
Plot Offset: 6 mV

Sample #: c1.0
Date : 2/3/05 03:27 PM
Time of Injection: 2/3/05 12:24 PM
Low Point : 6.01 mV
Plot Scale: 174.1 mV
High Point : 180.08 mV

Page 1 of 1

GW3

Response [mV]



Chromatogram

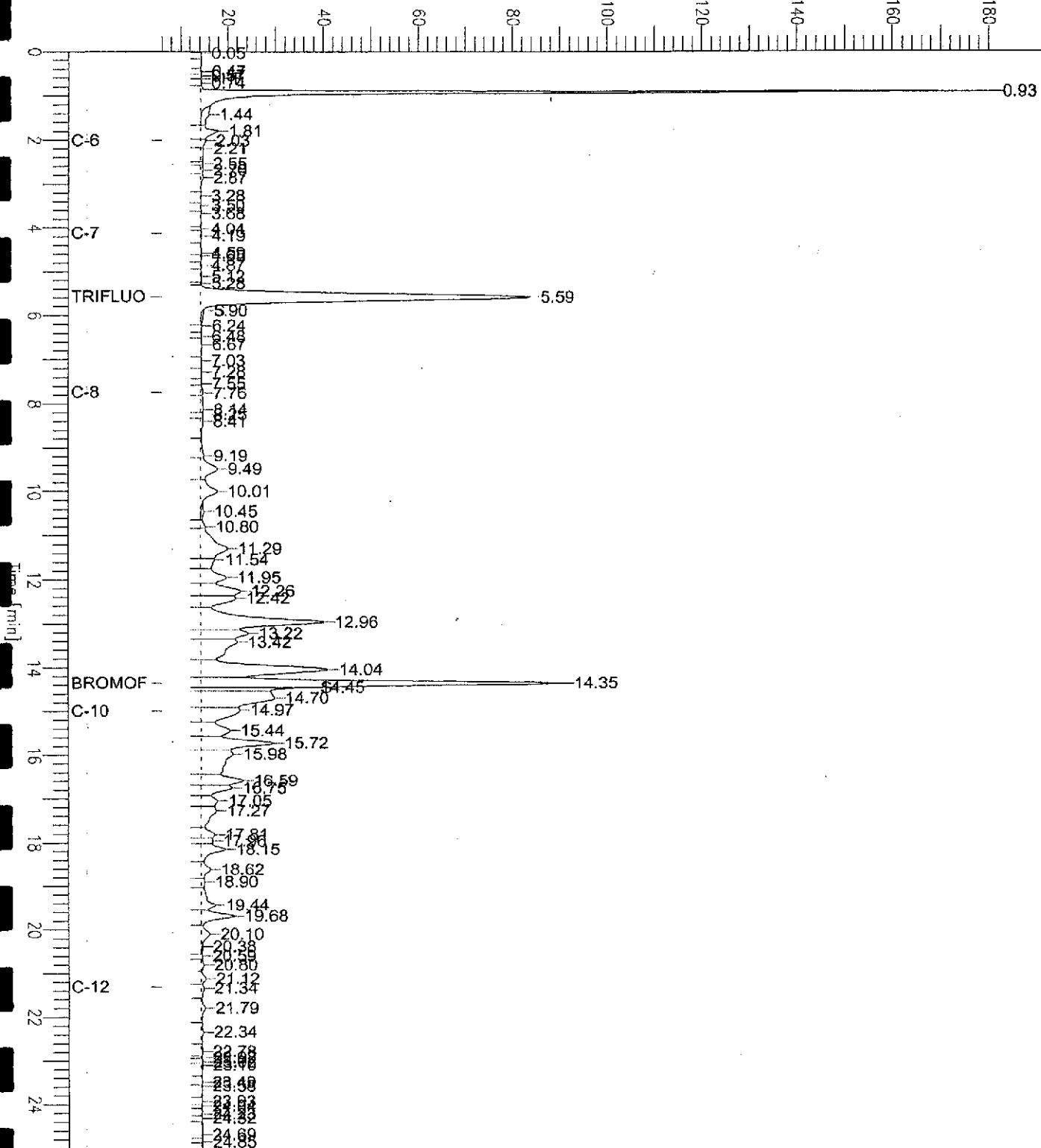
Sample Name : 177472-003,98840,tvh+stodd
FileName : G:\GC05\DATA\034G007.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0

End Time : 25.00 min
Plot Offset : 6 mV

Page 1 of 1
Sample #: cl.0
Date : 2/3/05 03:27 PM
Time of Injection: 2/3/05 12:56 PM
Low Point : 5.94 mV
High Point : 180.84 mV
Plot Scale: 174.9 mV

GW4

Response [mV]



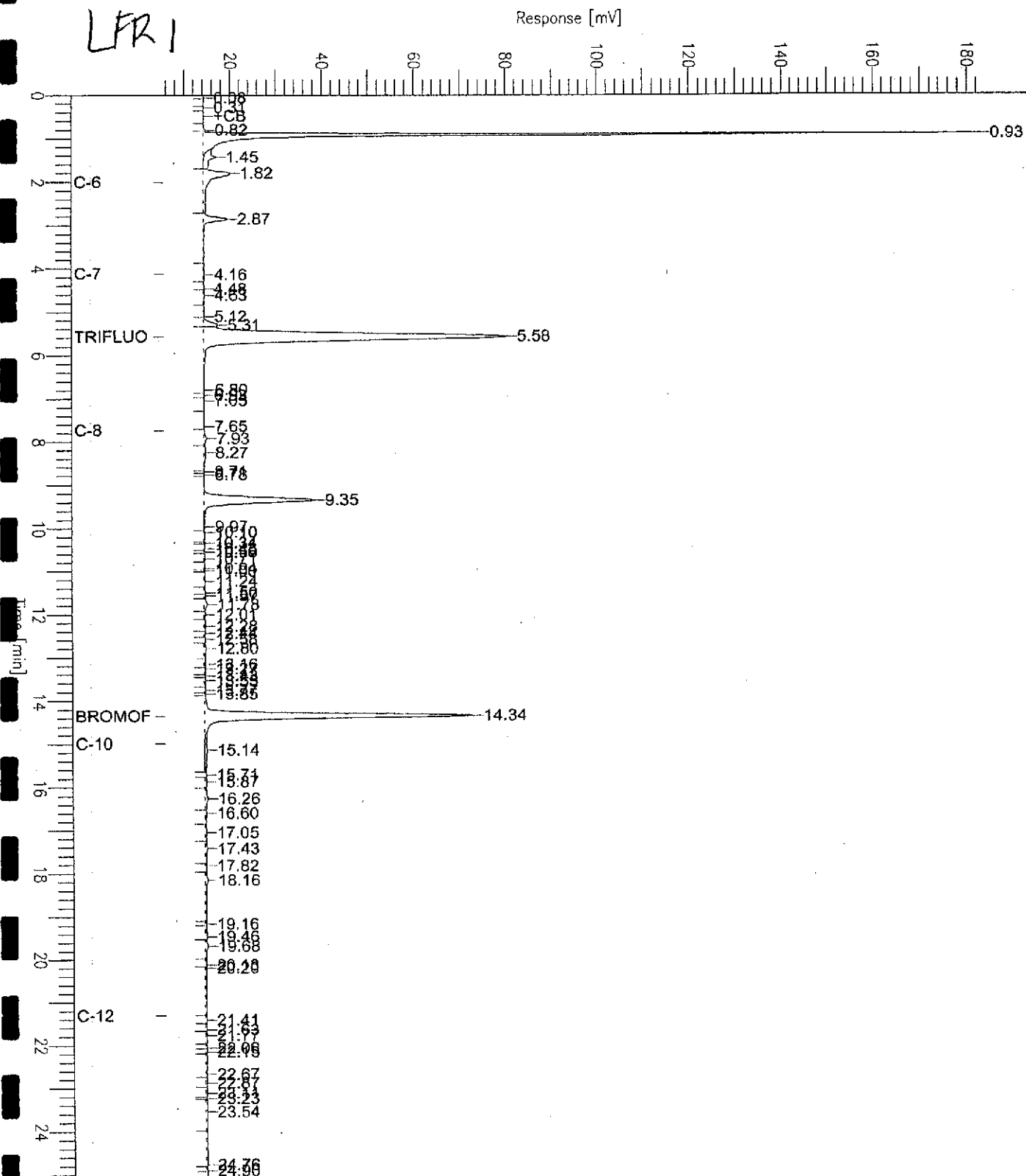
Chromatogram

Sample Name : 177472-005_98840.tvh+stodd
FileName : g:\gc05\data\0349008.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 25.00 min
Plot Offset: 5 mV

Sample #: c1.0
Date : 2/4/05 10:56 AM
Time of Injection: 2/3/05 02:00 PM
Low Point : 5.48 mV
Plot Scale: 177.5 mV
High Point : 182.98 mV

Page 1 of 1



Chromatogram

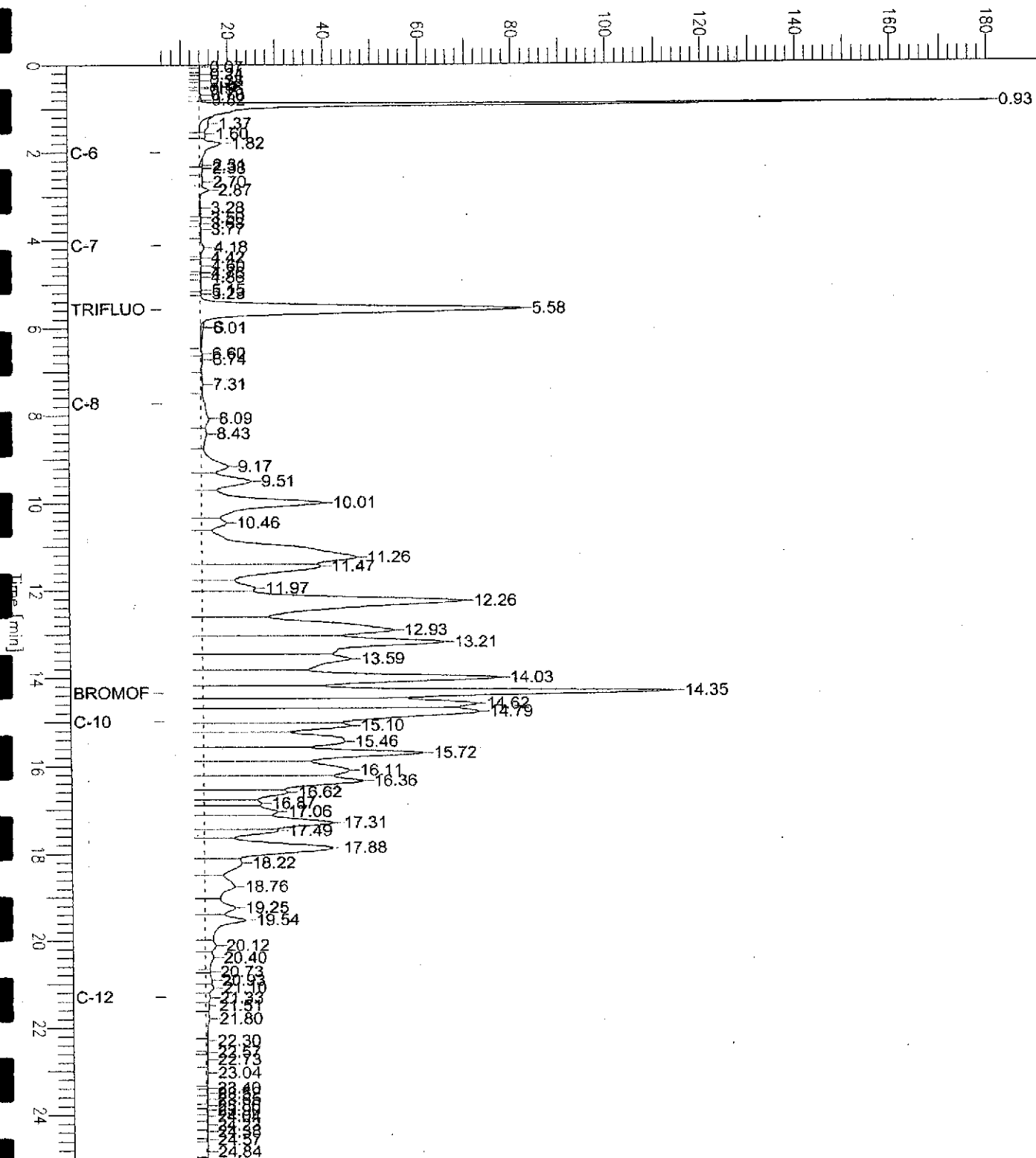
006

Sample Name : 177472-005.98840.tvh+stodd
FileName : G:\GC05\DATA\034G009.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor : 1.0 Plot Offset: 6 mV

Sample #: c1.0 Page 1 of 1
Date : 2/3/05 03:27 PM
Time of Injection: 2/3/05 02:32 PM
Low Point : 5.71 mV High Point : 180.51 mV
Plot Scale: 174.8 mV

LFR2

Response [mV]



Chromatogram

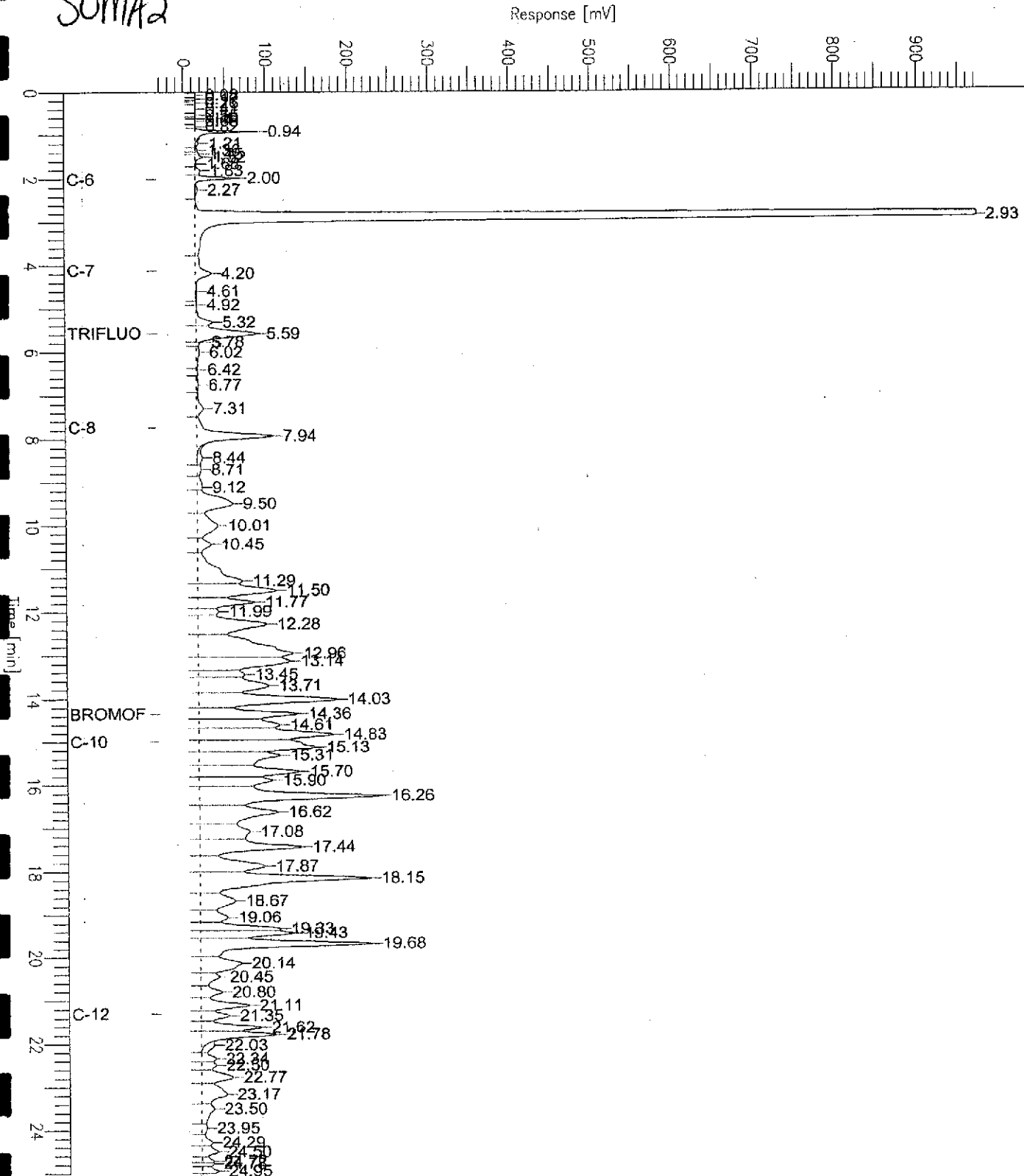
Sample Name : 177472-009,98840,tvh+stodd
FileName : G:\GC05\DATA\034G004.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 25.00 min
Plot Offset: -33 mV

Sample #: c1.0
Date : 2/3/05 03:27 PM
Time of Injection: 2/3/05 10:48 AM
Low Point : -33.15 mV
Plot Scale: 1006.0 mV

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SOMA2



Chromatogram

Sample Name : 177472-010,98840,tvh+stodd
FileName : G:\GC05\DATA\034G015.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

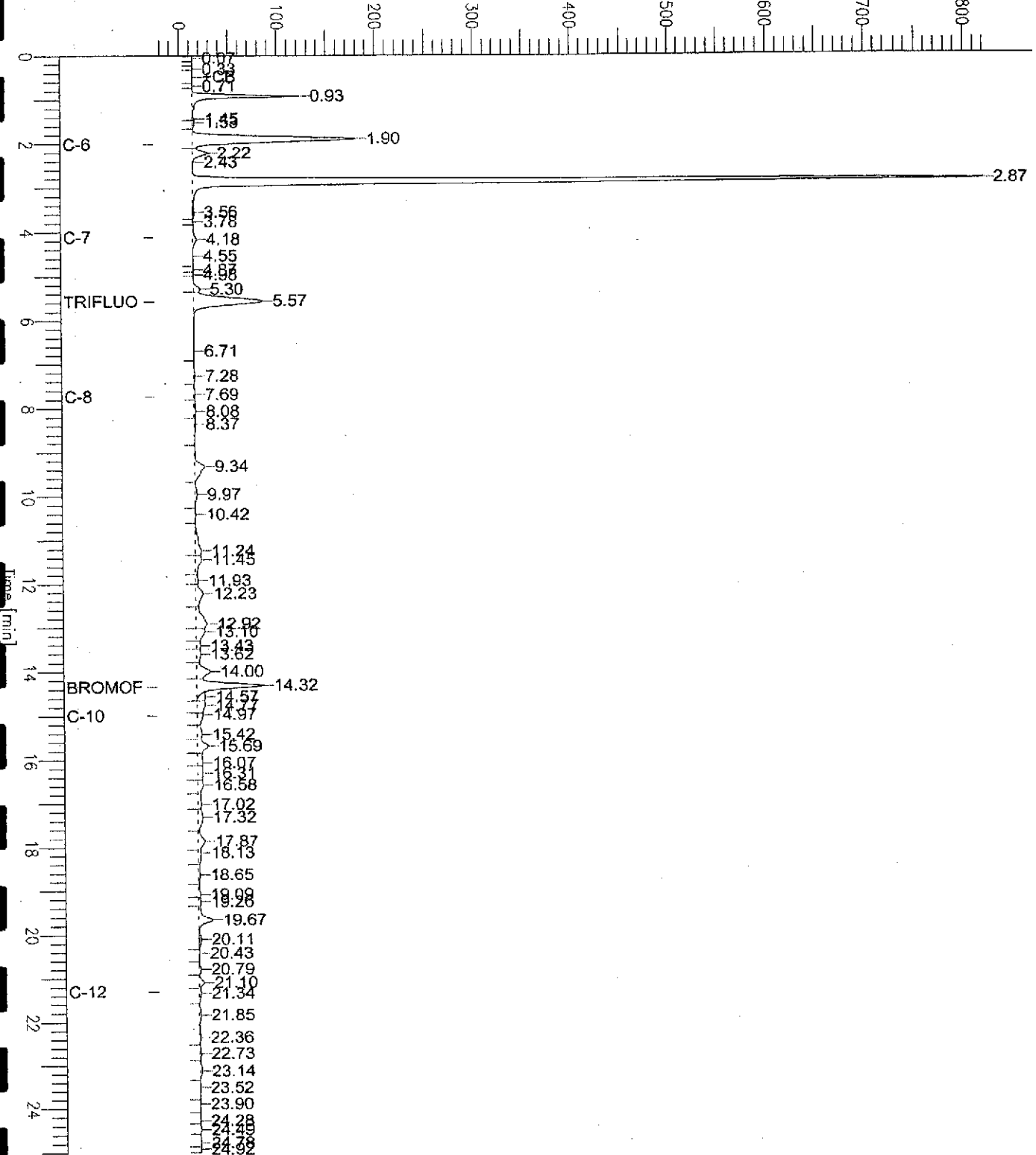
End Time : 25.00 min
Plot Offset: -26 mV

Sample #: c1.0
Date : 2/3/05 06:40 PM
Time of Injection: 2/3/05 06:15 PM
Low Point : -26.41 mV
Plot Scale: 847.7 mV
High Point : 821.24 mV

Page 1 of 1

Some 3

Response [mV]

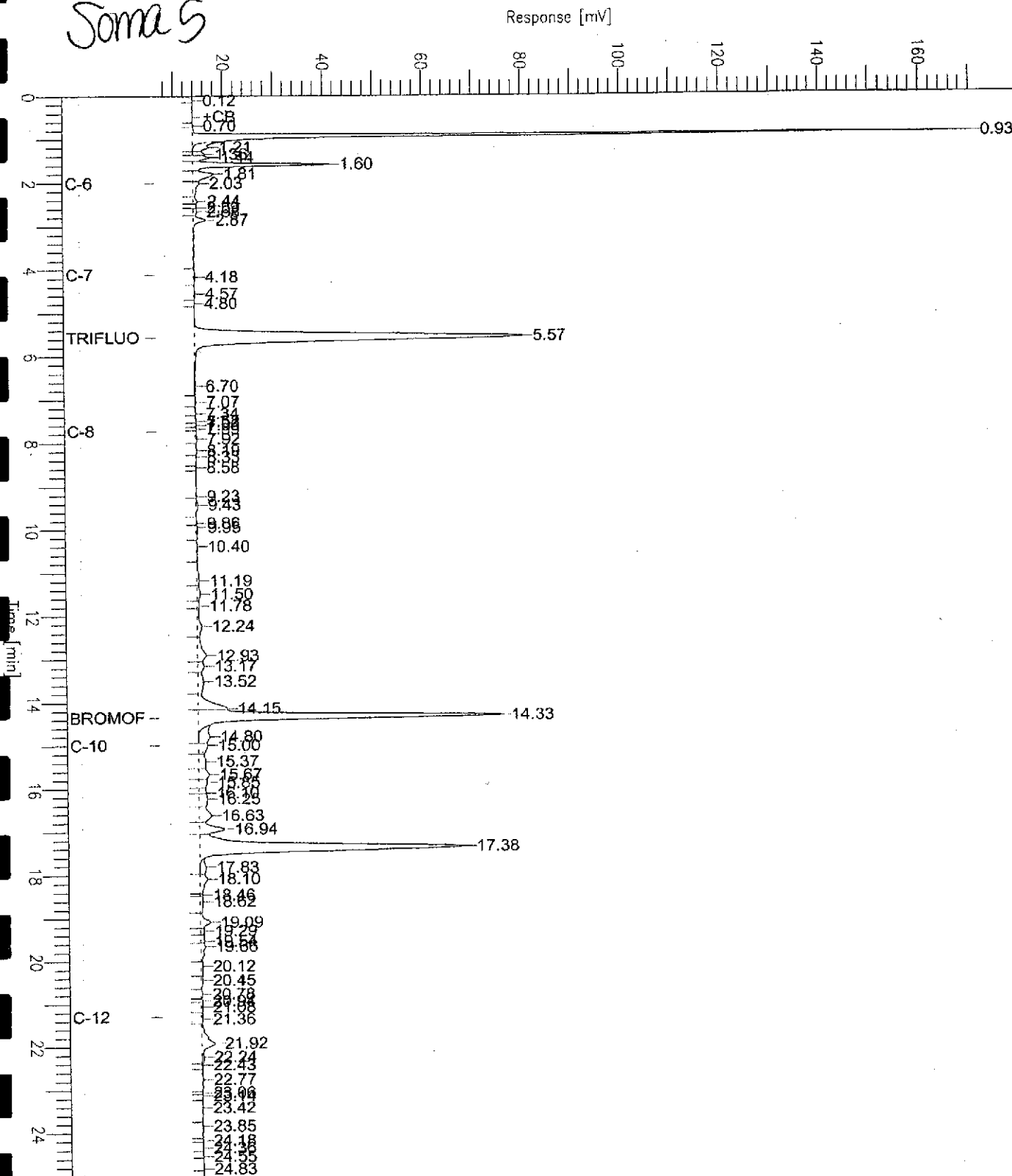


Chromatogram

Sample Name : 177472-011,98840,tvh+stodd
FileName : G:\GC05\DATA\0346016.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 6 mV

Sample #: c1.0 Page 1 of 1
Date : 2/3/05 07:12 PM
Time of Injection: 2/3/05 06:47 PM
Low Point : 6.10 mV High Point : 170.57 mV
Plot Scale: 164.5 mV

Soma 5



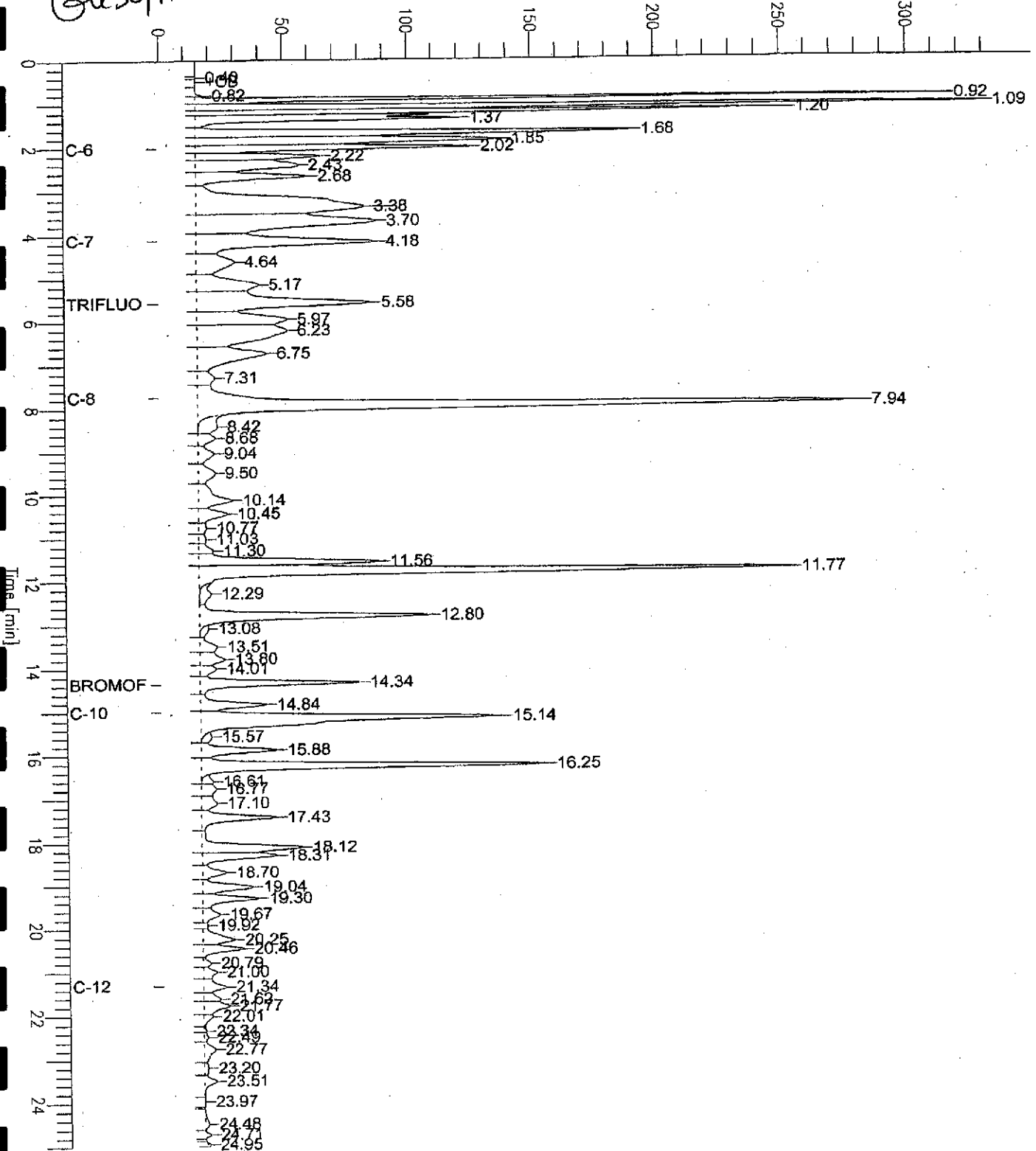
Chromatogram

Sample Name : ccv/lcs,qc281426,98840,05ws0177,5/5000
FileName : g:\gc05\data\034g001.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0

Sample # :
Date : 2/3/05 12:55 PM
Time of Injection: 2/3/05 08:30 AM
Low Point : -0.73 mV
Plot Scale: 331.2 mV
Page 1 of 1
End Time : 25.00 min
Plot Offset: -1 mV
High Point : 330.50 mV

Gasoline

Response [mV]

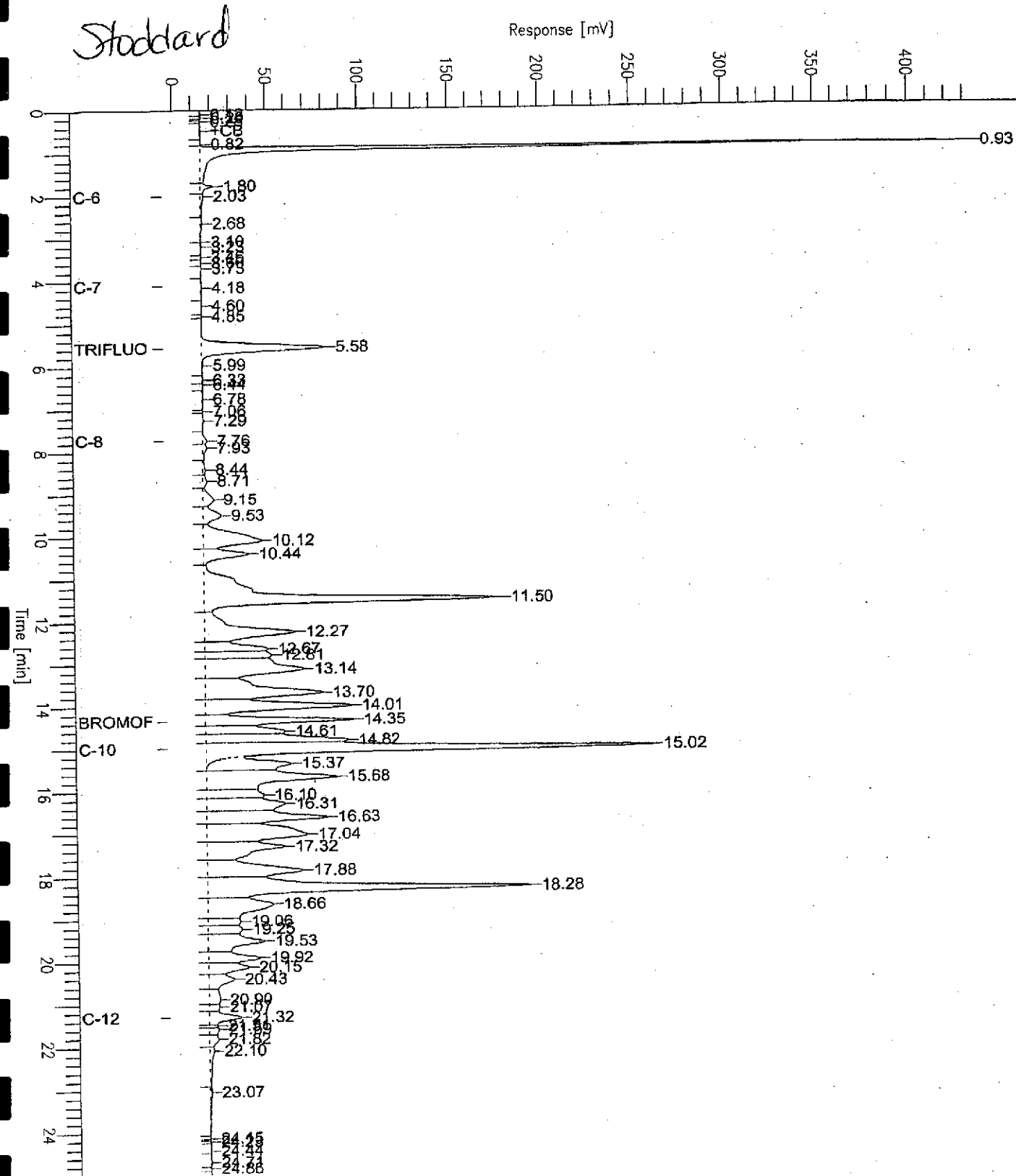


Chromatogram

Sample Name : ccv, stoddard, 98840, 04ws2196, 5/5000
FileName : g:\gc05\data\034g002.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0

End Time : 25.00 min
Plot Offset: -6 mV

Sample #: Page 1 of 1
Date : 2/3/05 12:55 PM
Time of Injection: 2/3/05 09:02 AM
Low Point : -5.86 mV High Point : 434.49 mV
Plot Scale: 440.3 mV





Batch QC Report

Total Volatile Hydrocarbons

Lab #:	177472	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:	QC281426	Batch#:	98840
Matrix:	Water	Analyzed:	02/03/05
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,985	99	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	133	70-141
Bromofluorobenzene (FID)	105	80-143



Batch QC Report

Total Volatile Hydrocarbons

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8015B
Field ID: GW 2	Batch#: 98840
MSS Lab ID: 177472-001	Sampled: 02/02/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Type: MS Lab ID: QC281450

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	30.52	2,000	1,985	98	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	139	70-141
Bromofluorobenzene (FID)	114	80-143

Type: MSD Lab ID: QC281451

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,986	98	80-120	0	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	132	70-141
Bromofluorobenzene (FID)	115	80-143



Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: GW 2	Batch#: 98848
Lab ID: 177472-001	Sampled: 02/02/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	16	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	6.6	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	49	5.0

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW 2	Batch#:	98848
Lab ID:	177472-001	Sampled:	02/02/05
Matrix:	Water	Received:	02/02/05
Units:	ug/L	Analyzed:	02/03/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	UREC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	105	80-120
Toluene-d8	93	80-120
Bromofluorobenzene	94	80-122

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: GW 3	Batch#: 98848
Lab ID: 177472-002	Sampled: 02/02/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 6.250	

Analyte	Result	RL
Freon 12	ND	63
Chloromethane	ND	63
Vinyl Chloride	ND	63
Bromomethane	ND	63
Chloroethane	ND	63
Trichlorofluoromethane	ND	31
Acetone	ND	130
Freon 113	ND	31
1,1-Dichloroethene	ND	31
Methylene Chloride	ND	130
Carbon Disulfide	ND	31
MTBE	ND	31
trans-1,2-Dichloroethene	ND	31
Vinyl Acetate	ND	310
1,1-Dichloroethane	ND	31
2-Butanone	ND	63
cis-1,2-Dichloroethene	ND	31
2,2-Dichloropropane	ND	31
Chloroform	ND	31
Bromochloromethane	ND	63
1,1,1-Trichloroethane	ND	31
1,1-Dichloropropene	ND	31
Carbon Tetrachloride	ND	31
1,2-Dichloroethane	ND	31
Benzene	ND	31
Trichloroethene	ND	31
1,2-Dichloropropane	ND	31
Bromodichloromethane	ND	31
Dibromomethane	ND	31
4-Methyl-2-Pentanone	ND	63
cis-1,3-Dichloropropene	ND	31
Toluene	ND	31
trans-1,3-Dichloropropene	ND	31
1,1,2-Trichloroethane	ND	31
2-Hexanone	ND	63
1,3-Dichloropropane	ND	31
Tetrachloroethene	360	31

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2



Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: GW 3	Batch#: 98848
Lab ID: 177472-002	Sampled: 02/02/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 6.250	

Analyte	Result	RL
Dibromochloromethane	ND	31
1,2-Dibromoethane	ND	31
Chlorobenzene	ND	31
1,1,1,2-Tetrachloroethane	ND	31
Ethylbenzene	ND	31
m,p-Xylenes	ND	31
o-Xylene	ND	31
Styrene	ND	31
Bromoform	ND	31
Isopropylbenzene	ND	31
1,1,2,2-Tetrachloroethane	ND	31
1,2,3-Trichloropropane	ND	31
Propylbenzene	ND	31
Bromobenzene	ND	31
1,3,5-Trimethylbenzene	ND	31
2-Chlorotoluene	ND	31
4-Chlorotoluene	ND	31
tert-Butylbenzene	ND	31
1,2,4-Trimethylbenzene	ND	31
sec-Butylbenzene	ND	31
para-Isopropyl Toluene	ND	31
1,3-Dichlorobenzene	ND	31
1,4-Dichlorobenzene	ND	31
n-Butylbenzene	ND	31
1,2-Dichlorobenzene	ND	31
1,2-Dibromo-3-Chloropropane	ND	31
1,2,4-Trichlorobenzene	ND	31
Hexachlorobutadiene	ND	31
Naphthalene	ND	31
1,2,3-Trichlorobenzene	ND	31

Surrogate	%RRC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	115	80-120
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-122

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2



Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: GW 4	Batch#: 98848
Lab ID: 177472-003	Sampled: 02/01/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2



Purgeable Organics by GC/MS

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	GW 4	Batch#:	98848
Lab ID:	177472-003	Sampled:	02/01/05
Matrix:	Water	Received:	02/02/05
Units:	ug/L	Analyzed:	02/03/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	105	80-120
Toluene-d8	92	80-120
Bromofluorobenzene	96	80-122

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: MW 11	Batch#: 98848
Lab ID: 177472-004	Sampled: 02/01/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: MW 11	Batch#: 98848
Lab ID: 177472-004	Sampled: 02/01/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	106	80-120
Toluene-d8	96	80-120
Bromofluorobenzene	98	80-122

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	LFR 1	Batch#:	98848
Lab ID:	177472-005	Sampled:	02/02/05
Matrix:	Water	Received:	02/02/05
Units:	ug/L	Analyzed:	02/03/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	7.2	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	7.9	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	89	5.0

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: LFR 1	Batch#: 98848
Lab ID: 177472-005	Sampled: 02/02/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	113	80-120
Toluene-d8	96	80-120
Bromofluorobenzene	99	80-122

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

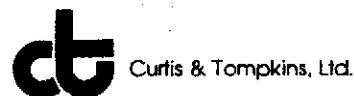
Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: LFR 2	Batch#: 98848
Lab ID: 177472-006	Sampled: 02/01/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
BromoChloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: LFR 2	Batch#: 98848
Lab ID: 177472-006	Sampled: 02/01/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	108	80-120
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-122

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: LFR 3	Batch#: 98848
Lab ID: 177472-007	Sampled: 02/02/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: LFR 3	Batch#: 98848
Lab ID: 177472-007	Sampled: 02/02/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	102	80-120
Toluene-d8	92	80-120
Bromofluorobenzene	100	80-122

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: SOMA 1	Batch#: 98848
Lab ID: 177472-008	Sampled: 02/01/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 3.333	

Analyte	Result	RL
Freon 12	ND	33
Chloromethane	ND	33
Vinyl Chloride	ND	33
Bromomethane	ND	33
Chloroethane	ND	33
Trichlorofluoromethane	ND	17
Acetone	ND	67
Freon 113	ND	17
1,1-Dichloroethene	ND	17
Methylene Chloride	ND	67
Carbon Disulfide	ND	17
MTBE	200	17
trans-1,2-Dichloroethene	ND	17
Vinyl Acetate	ND	170
1,1-Dichloroethane	ND	17
2-Butanone	ND	33
cis-1,2-Dichloroethene	28	17
2,2-Dichloropropane	ND	17
Chloroform	ND	17
Bromochloromethane	ND	33
1,1,1-Trichloroethane	ND	17
1,1-Dichloropropene	ND	17
Carbon Tetrachloride	ND	17
1,2-Dichloroethane	ND	17
Benzene	ND	17
Trichloroethene	ND	17
1,2-Dichloropropane	ND	17
Bromodichloromethane	ND	17
Dibromomethane	ND	17
4-Methyl-2-Pentanone	ND	33
cis-1,3-Dichloropropene	ND	17
Toluene	ND	17
trans-1,3-Dichloropropene	ND	17
1,1,2-Trichloroethane	ND	17
2-Hexanone	ND	33
1,3-Dichloropropane	ND	17
Tetrachloroethene	22	17

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: SOMA 1	Batch#: 98848
Lab ID: 177472-008	Sampled: 02/01/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 3.333	

Analyte	Result	RL
Dibromochloromethane	ND	17
1,2-Dibromoethane	ND	17
Chlorobenzene	ND	17
1,1,1,2-Tetrachloroethane	ND	17
Ethylbenzene	ND	17
m,p-Xylenes	ND	17
o-Xylene	ND	17
Styrene	ND	17
Bromoform	ND	17
Isopropylbenzene	ND	17
1,1,2,2-Tetrachloroethane	ND	17
1,2,3-Trichloropropane	ND	17
Propylbenzene	ND	17
Bromobenzene	ND	17
1,3,5-Trimethylbenzene	ND	17
2-Chlorotoluene	ND	17
4-Chlorotoluene	ND	17
tert-Butylbenzene	ND	17
1,2,4-Trimethylbenzene	ND	17
sec-Butylbenzene	ND	17
para-Isopropyl Toluene	ND	17
1,3-Dichlorobenzene	ND	17
1,4-Dichlorobenzene	ND	17
n-Butylbenzene	ND	17
1,2-Dichlorobenzene	ND	17
1,2-Dibromo-3-Chloropropane	ND	17
1,2,4-Trichlorobenzene	ND	17
Hexachlorobutadiene	ND	17
Naphthalene	ND	17
1,2,3-Trichlorobenzene	ND	17

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	111	80-120
Toluene-d8	95	80-120
Bromofluorobenzene	105	80-122

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: SOMA 2	Batch#: 98848
Lab ID: 177472-009	Sampled: 02/02/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 62.50	

Analyte	Result	RL
Freon 12	ND	630
Chloromethane	ND	630
Vinyl Chloride	ND	630
Bromomethane	ND	630
Chloroethane	ND	630
Trichlorofluoromethane	ND	310
Acetone	ND	1,300
Freon 113	ND	310
1,1-Dichloroethene	ND	310
Methylene Chloride	ND	1,300
Carbon Disulfide	ND	310
MTBE	ND	310
trans-1,2-Dichloroethene	ND	310
Vinyl Acetate	ND	3,100
1,1-Dichloroethane	ND	310
2-Butanone	ND	630
cis-1,2-Dichloroethene	6,100	310
2,2-Dichloropropane	ND	310
Chloroform	ND	310
Bromochloromethane	ND	630
1,1,1-Trichloroethane	ND	310
1,1-Dichloropropene	ND	310
Carbon Tetrachloride	ND	310
1,2-Dichloroethane	ND	310
Benzene	ND	310
Trichloroethene	ND	310
1,2-Dichloropropane	ND	310
Bromodichloromethane	ND	310
Dibromomethane	ND	310
4-Methyl-2-Pentanone	ND	630
cis-1,3-Dichloropropene	ND	310
Toluene	ND	310
trans-1,3-Dichloropropene	ND	310
1,1,2-Trichloroethane	ND	310
2-Hexanone	ND	630
1,3-Dichloropropane	ND	310
Tetrachloroethene	ND	310

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA 2	Batch#:	98848
Lab ID:	177472-009	Sampled:	02/02/05
Matrix:	Water	Received:	02/02/05
Units:	ug/L	Analyzed:	02/03/05
Diln Fac:	62.50		

Analyte	Result	RL
Dibromochloromethane	ND	310
1,2-Dibromoethane	ND	310
Chlorobenzene	ND	310
1,1,1,2-Tetrachloroethane	ND	310
Ethylbenzene	ND	310
m,p-Xylenes	ND	310
o-Xylene	ND	310
Styrene	ND	310
Bromoform	ND	310
Isopropylbenzene	ND	310
1,1,2,2-Tetrachloroethane	ND	310
1,2,3-Trichloropropane	ND	310
Propylbenzene	ND	310
Bromobenzene	ND	310
1,3,5-Trimethylbenzene	ND	310
2-Chlorotoluene	ND	310
4-Chlorotoluene	ND	310
tert-Butylbenzene	ND	310
1,2,4-Trimethylbenzene	ND	310
sec-Butylbenzene	ND	310
para-Isopropyl Toluene	ND	310
1,3-Dichlorobenzene	ND	310
1,4-Dichlorobenzene	ND	310
n-Butylbenzene	ND	310
1,2-Dichlorobenzene	ND	310
1,2-Dibromo-3-Chloropropane	ND	310
1,2,4-Trichlorobenzene	ND	310
Hexachlorobutadiene	ND	310
Naphthalene	ND	310
1,2,3-Trichlorobenzene	ND	310

Surrogate	REC	Limits
Dibromofluoromethane	96	80-120
1,2-Dichloroethane-d4	105	80-120
Toluene-d8	96	80-120
Bromofluorobenzene	93	80-122

ND= Not Detected
RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA 3	Batch#:	98874
Lab ID:	177472-010	Sampled:	02/02/05
Matrix:	Water	Received:	02/02/05
Units:	ug/L	Analyzed:	02/04/05
Diln Fac:	12.50		

Analyte	Result	RL
Freon 12	ND	130
Chloromethane	ND	130
Vinyl Chloride	ND	130
Bromomethane	ND	130
Chloroethane	ND	130
Trichlorofluoromethane	ND	63
Acetone	ND	250
Freon 113	ND	63
1,1-Dichloroethene	ND	63
Methylene Chloride	ND	250
Carbon Disulfide	ND	63
MTBE	250	63
trans-1,2-Dichloroethene	ND	63
Vinyl Acetate	ND	630
1,1-Dichloroethane	ND	63
2-Butanone	ND	130
cis-1,2-Dichloroethene	1,100	63
2,2-Dichloropropane	ND	63
Chloroform	ND	63
Bromochloromethane	ND	130
1,1,1-Trichloroethane	ND	63
1,1-Dichloropropene	ND	63
Carbon Tetrachloride	ND	63
1,2-Dichloroethane	ND	63
Benzene	ND	63
Trichloroethene	ND	63
1,2-Dichloropropane	ND	63
Bromodichloromethane	ND	63
Dibromomethane	ND	63
4-Methyl-2-Pentanone	ND	130
cis-1,3-Dichloropropene	ND	63
Toluene	ND	63
trans-1,3-Dichloropropene	ND	63
1,1,2-Trichloroethane	ND	63
2-Hexanone	ND	130
1,3-Dichloropropane	ND	63
Tetrachloroethene	ND	63

ND= Not Detected
 RL= Reporting Limit
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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA B260B
Field ID:	SOMA 3	Batch#:	98874
Lab ID:	177472-010	Sampled:	02/02/05
Matrix:	Water	Received:	02/02/05
Units:	ug/L	Analyzed:	02/04/05
Diln Fac:	12.50		

Analyte	Result	RL
Dibromochloromethane	ND	63
1,2-Dibromoethane	ND	63
Chlorobenzene	ND	63
1,1,1,2-Tetrachloroethane	ND	63
Ethylbenzene	ND	63
m,p-Xylenes	ND	63
o-Xylene	ND	63
Styrene	ND	63
Bromoform	ND	63
Isopropylbenzene	ND	63
1,1,2,2-Tetrachloroethane	ND	63
1,2,3-Trichloropropane	ND	63
Propylbenzene	ND	63
Bromobenzene	ND	63
1,3,5-Trimethylbenzene	ND	63
2-Chlorotoluene	ND	63
4-Chlorotoluene	ND	63
tert-Butylbenzene	ND	63
1,2,4-Trimethylbenzene	ND	63
sec-Butylbenzene	ND	63
para-Isopropyl Toluene	ND	63
1,3-Dichlorobenzene	ND	63
1,4-Dichlorobenzene	ND	63
n-Butylbenzene	ND	63
1,2-Dichlorobenzene	ND	63
1,2-Dibromo-3-Chloropropane	ND	63
1,2,4-Trichlorobenzene	ND	63
Hexachlorobutadiene	ND	63
Naphthalene	ND	63
1,2,3-Trichlorobenzene	ND	63

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	104	80-120
Toluene-d8	102	80-120
Bromofluorobenzene	97	80-122

ND= Not Detected
RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Field ID:	SOMA 5	Batch#:	98848
Lab ID:	177472-011	Sampled:	02/02/05
Matrix:	Water	Received:	02/02/05
Units:	ug/L	Analyzed:	02/03/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 177472	Location: 3815 Broadway, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2511	Analysis: EPA 8260B
Field ID: SOMA 5	Batch#: 98848
Lab ID: 177472-011	Sampled: 02/02/05
Matrix: Water	Received: 02/02/05
Units: ug/L	Analyzed: 02/03/05
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	109	80-120
Toluene-d8	98	80-120
Bromofluorobenzene	108	80-122

ND= Not Detected
 RL= Reporting Limit
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Batch QC Report

Purgeable Organics by GC/MS

Lab #: 177472	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: QC281463	Batch#: 98848
Matrix: Water	Analyzed: 02/03/05
Units: ug/L	

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit
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Batch QC Report

Purgeable Organics by GC/MS

Lab #:	177472	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:	QC281463	Batch#:	98848
Matrix:	Water	Analyzed:	02/03/05
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
DibromoFluoromethane	98	80-120
1,2-Dichloroethane-d4	101	80-120
Toluene-d8	93	80-120
Bromofluorobenzene	102	80-122

ND= Not Detected
 RL= Reporting Limit
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Batch QC Report

Purgeable Organics by GC/MS

Lab #:	177472	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:	QC281553	Batch#:	98874
Matrix:	Water	Analyzed:	02/04/05
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit
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Batch QC Report

Purgeable Organics by GC/MS

Lab #:	177472	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:	QC281553	Batch#:	98874
Matrix:	Water	Analyzed:	02/04/05
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	101	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	96	80-122

ND= Not Detected
 RL= Reporting Limit
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Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	98848
Units:	ug/L	Analyzed:	02/03/05
Diln Fac:	1.000		

Type: BS Lab ID: QC281461

Analyte	Spiked	Result	%REC	Limite
1,1-Dichloroethene	25.00	24.84	99	75-120
Benzene	25.00	24.99	100	79-120
Trichloroethene	25.00	23.63	95	79-120
Toluene	25.00	24.84	99	80-120
Chlorobenzene	25.00	23.94	96	80-120

Surrogate	%REC	Limite
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	115	80-120
Toluene-d8	107	80-120
Bromofluorobenzene	103	80-122

Type: BSD Lab ID: QC281462

Analyte	Spiked	Result	%REC	Limite	RPD	Lim
1,1-Dichloroethene	25.00	24.92	100	75-120	0	20
Benzene	25.00	24.76	99	79-120	1	20
Trichloroethene	25.00	22.35	89	79-120	6	20
Toluene	25.00	22.96	92	80-120	8	20
Chlorobenzene	25.00	23.86	95	80-120	0	20

Surrogate	%REC	Limite
Dibromofluoromethane	92	80-120
1,2-Dichloroethane-d4	109	80-120
Toluene-d8	96	80-120
Bromofluorobenzene	102	80-122



Batch QC Report

Purgeable Organics by GC/MS

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2511	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	98874
Units:	ug/L	Analyzed:	02/04/05
Diln Fac:	1.000		

Type: BS Lab ID: QC281551

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	29.84	119	75-120
Benzene	25.00	26.16	105	79-120
Trichloroethene	25.00	25.15	101	79-120
Toluene	25.00	26.85	107	80-120
Chlorobenzene	25.00	25.65	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	98	80-120
Toluene-d8	103	80-120
Bromofluorobenzene	89	80-122

Type: BSD Lab ID: QC281552

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	28.32	113	75-120	5	20
Benzene	25.00	25.22	101	79-120	4	20
Trichloroethene	25.00	24.08	96	79-120	4	20
Toluene	25.00	25.50	102	80-120	5	20
Chlorobenzene	25.00	25.25	101	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	94	80-120
Toluene-d8	100	80-120
Bromofluorobenzene	96	80-122



Dissolved Gases by GC FID

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2511	Analysis:	RSK-175
Analyte:	Methane	Batch#:	98932
Matrix:	Water	Received:	02/02/05
Units:	mg/L	Analyzed:	02/07/05

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled
GW 2	SAMPLE	177472-001	ND	0.0050	1.000	02/02/05
GW 3	SAMPLE	177472-002	ND	0.0050	1.000	02/02/05
GW 4	SAMPLE	177472-003	1.2	0.0050	1.000	02/01/05
MW 11	SAMPLE	177472-004	ND	0.0050	1.000	02/01/05
LFR 1	SAMPLE	177472-005	0.012	0.0050	1.000	02/02/05
LFR 2	SAMPLE	177472-006	11	0.050	10.00	02/01/05
LFR 3	SAMPLE	177472-007	ND	0.0050	1.000	02/02/05
SOMA 1	SAMPLE	177472-008	0.83	0.0050	1.000	02/01/05
SOMA 2	SAMPLE	177472-009	13	0.050	10.00	02/02/05
SOMA 3	SAMPLE	177472-010	2.7	0.0050	1.000	02/02/05
SOMA 5	SAMPLE	177472-011	3.0	0.025	5.000	02/02/05
	BLANK	QC281770	ND	0.0050	1.000	



Batch QC Report

Dissolved Gases by GC FID

Lab #:	177472	Location:	3815 Broadway, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2511	Analysis:	RSK-175
Analyte:	Methane	Diln Fac:	1.000
Matrix:	Water	Batch#:	98932
Units:	mg/L	Analyzed:	02/07/05

Type	Lab ID	Spiked	Result	SPHC	Limits	RPD	Lim
BS	QC281771	0.03272	0.03048	93	80-120		
BSD	QC281772	0.03272	0.02947	90	80-120	3	20