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**FIRST QUARTER 2006
GROUNDWATER MONITORING,
ANNUAL SUMMARY REPORT,
AND PETITION FOR CASE CLOSURE**

**BENNER AUTOMOTIVE
488 25TH STREET
OAKLAND, CALIFORNIA**

Prepared for:

**JOSEPH & LORETTA BENNER FAMILY TRUST
OAKLAND, CALIFORNIA**

March 2006

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By loprojectop at 10:22 am, Mar 24, 2006

March 24, 2006

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health – Local Oversight Program
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: First Quarter 2006 Groundwater Monitoring, Annual Summary Report, and
Petition for Case Closure – Benner Automotive (488 25th Street, Oakland, California)
Alameda County Health Case No. RO002518 / GeoTracker Global ID T0600114301

Dear Mr. Hwang:

This report documents the fourth consecutive groundwater monitoring event (Q1 2006) conducted in February 2006 by Stellar Environmental Solutions, Inc. at the referenced site. Three site groundwater monitoring wells were installed and first sampled in May 2005 to evaluate impacts from a former onsite underground fuel storage tank. The scope of work was conducted in accordance with the Alameda County Health-approved technical workplan. This report also presents an evaluation of hydrologic and contaminant data from inception through present, including an evaluation of residual contamination distribution and potential for migration.

In our professional opinion, the site meets case closure criteria. On behalf of the Responsible Party, we hereby petition Alameda County Health to grant closure, which would include the discontinuation of groundwater monitoring and permanent decommissioning of the site wells.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge. This report was uploaded to the State Water Resources Control Board's GeoTracker system, as well as the Alameda County Health "ftp" website. Please contact us at (510) 644-3123 if you have any questions. We look forward to your reply regarding the case closure petition.

Sincerely,



Bruce Rucker, R.G., R.E.A.
Project Manager and Senior Geologist



Richard S. Makdisi, R.G., R.E.A.
Principal

cc: Mr. Michael Benner – Representative of Benner Family Trust

Table C-1
Historical Groundwater Monitoring Well Analytical Results
488 25th Street, Oakland, California

| Sample I.D. | TVHg | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Lead Scavengers and Fuel Oxygenates ^(a) |
|---|------------|------------|--------------|--------------|---------------|--------------------------|--|
| May 2005 Groundwater Sampling Event | | | | | | | |
| MW-1 | 64 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 0.50 | ND |
| MW-2 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 0.50 | ND |
| MW-3 | 57 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 0.50 | ND |
| August 2005 Groundwater Sampling Event | | | | | | | |
| MW-1 | 66 | < 0.50 | 0.57 | < 0.50 | < 1.0 | < 5.0 | ND |
| MW-2 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 5.0 | ND |
| MW-3 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 5.0 | EDC = 0.62 |
| November 2005 Groundwater Sampling Event | | | | | | | |
| MW-1 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | ND |
| MW-2 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | ND |
| MW-3 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | EDC = 0.63 |
| Groundwater ESLs ^(b) | 100 | 1.0 | 40 | 30 | 13 | 5.0 | EDC = 0.5 |
| Drinking Water Standards ^(c) | NLP | 5.0 | 1,000 | 700 | 10,000 | 13 ^(d) | Various |

Notes:

^(a) Table shows only detected analytes.

^(b) ESLs = Regional Water Quality Control Board, San Francisco Bay Region Environmental Screening Levels for commercial/industrial sites where groundwater is a potential drinking water resource.

^(c) Primary Maximum Contaminant Level, unless specified otherwise.

^(d) State of California Public Health Goal.

EDC = 1,2-dichloroethane

ND = not detected (see Appendix B for reporting limits)

MTBE = methyl *tertiary*-butyl ether

NLP = no level published

TVHg = total volatile hydrocarbons, gasoline range

All concentrations are in micrograms per liter (µg/L).

**FIRST QUARTER 2006
GROUNDWATER MONITORING,
ANNUAL SUMMARY REPORT,
AND PETITION FOR CASE CLOSURE**

**BENNER AUTOMOTIVE
488 25TH STREET
OAKLAND, CALIFORNIA**

Prepared for:

**JOSEPH & LORETTA BENNER FAMILY TRUST
488 25TH STREET
OAKLAND, CALIFORNIA 94612**

Prepared by:

**STELLAR ENVIRONMENTAL SOLUTIONS, INC.
2198 SIXTH STREET
BERKELEY, CALIFORNIA 94710**

March 24, 2006

Project No. 2002-55

TABLE OF CONTENTS

| Section | Page |
|--|------|
| 1.0 INTRODUCTION..... | 1 |
| Project Background..... | 1 |
| Site and Vicinity Description..... | 1 |
| Objectives and Scope of Work..... | 4 |
| Regulatory Oversight..... | 4 |
| 2.0 PHYSICAL SETTING..... | 5 |
| Lithology..... | 5 |
| Groundwater Hydrology..... | 5 |
| 3.0 FEBRUARY 2006 GROUNDWATER WELL SAMPLING..... | 8 |
| 4.0 REGULATORY CONSIDERATIONS..... | 9 |
| Regulatory Status..... | 9 |
| Residual Contamination Regulatory Considerations..... | 9 |
| Electronic Data Reporting Compliance..... | 10 |
| 5.0 ANALYTICAL RESULTS AND FINDINGS..... | 11 |
| 6.0 DATA EVALUATION AND PETITION FOR CLOSURE..... | 14 |
| Water Level Trends..... | 14 |
| Hydrochemical Trends and Contaminant Distribution..... | 14 |
| Closure Criteria Assessment..... | 16 |
| 7.0 SUMMARY CONCLUSIONS AND PROPOSED ACTIONS..... | 18 |
| Summary and Conclusions..... | 18 |
| Petition for Closure..... | 19 |

TABLE OF CONTENTS (continued)

| Section | Page |
|-----------------------|------|
| 8.0 REFERENCES..... | 20 |
| 9.0 LIMITATIONS | 22 |

Appendices

| | |
|------------|--|
| Appendix A | Current Event Well Monitoring and Sampling Field Records |
| Appendix B | Current Event Analytical Laboratory Report & Chain-of-Custody Record |
| Appendix C | Historical Analytical Results |
| Appendix D | Site Hydrologic and Geologic Data |

TABLES AND FIGURES

| Tables | Page |
|--|-------------|
| Table 1 Groundwater Monitoring Well Construction and Groundwater Elevation Data February 24, 2006 – 488 25 th Street, Oakland, California | 8 |
| Table 2 Historical Groundwater Monitoring Well Groundwater Analytical Results – 488 25 th Street, Oakland..... | 12 |

| Figures | Page |
|---|-------------|
| Figure 1 Site Location Map..... | 2 |
| Figure 2 Site Plan With Historical Boreholes and Immediate Vicinity Utilities | 3 |
| Figure 3 February 2006 Groundwater Elevations | 7 |
| Figure 4 February 2006 Groundwater Analytical Results..... | 13 |
| Figure 5 Historical Groundwater Elevations in Monitoring Wells | 15 |

1.0 INTRODUCTION

PROJECT BACKGROUND

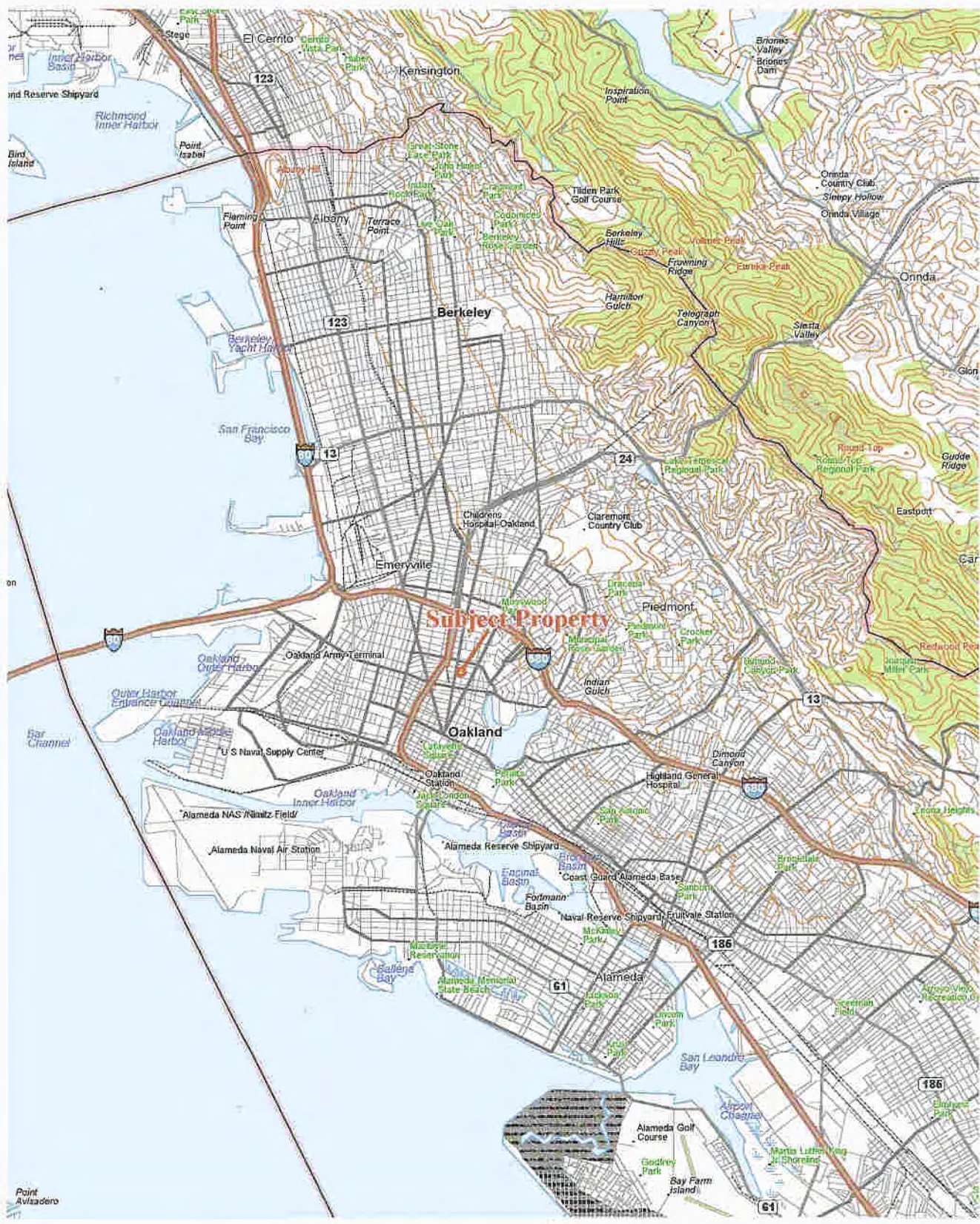
Stellar Environmental Solutions, Inc. (SES) was retained by the Joseph & Loretta Benner Family Trust (as property owner) to conduct groundwater monitoring and sampling activities at 488 25th Street in Oakland, California. This work follows the removal of one gasoline underground fuel storage tank (UFST) in 2003, a Preliminary Site Assessment (PSA) in July 2003, additional site characterization (borehole drilling and sampling) in July 2004, and groundwater monitoring well installation and sampling activities in May 2005. Previous site corrective actions and investigations are summarized later in this report. The Alameda County Health Care Services Agency (Alameda County Health) Department of Environmental Health is the lead regulatory agency for the investigation, and has assigned the site as Fuel Leak Case No. RO002518.

SITE AND VICINITY DESCRIPTION

The project site is an active automobile service facility (Benner Automotive) at 488 25th Street, Oakland, Alameda County, California (site). The site is located in downtown Oakland on the north side of 25th Street, approximately 500 feet east of Telegraph Avenue. Figure 1 is a site location map. Figure 2 is a site plan showing the location of the former UFST.

Previous investigations are summarized as follows:

- **January 2003.** A 1,000-gallon gasoline UFST was removed from the subject site. Gasoline-range petroleum hydrocarbon contamination was detected in soil samples collected from the base of the tank excavation.
- **July 2003.** A preliminary borehole investigation was conducted to define the extent and type of contamination that resulted from the leaking UFST. Five boreholes were advanced to depths of 16 to 25 feet below ground surface (bgs); soil and groundwater samples collected from these boreholes indicated gasoline contamination beneath the former UFST and to the east and south, with minor to insignificant gasoline contamination to the west and northwest.
- **July 2004.** Six exploratory boreholes were drilled and sampled in the vicinity of the former UFST to further define the extent of groundwater and soil contamination. Additionally, a well search indicated no vicinity water wells that could intercept site-sourced groundwater



SITE LOCATION ON U.S.G.S. TOPOGRAPHIC MAP

488 25th Street
Oakland, CA

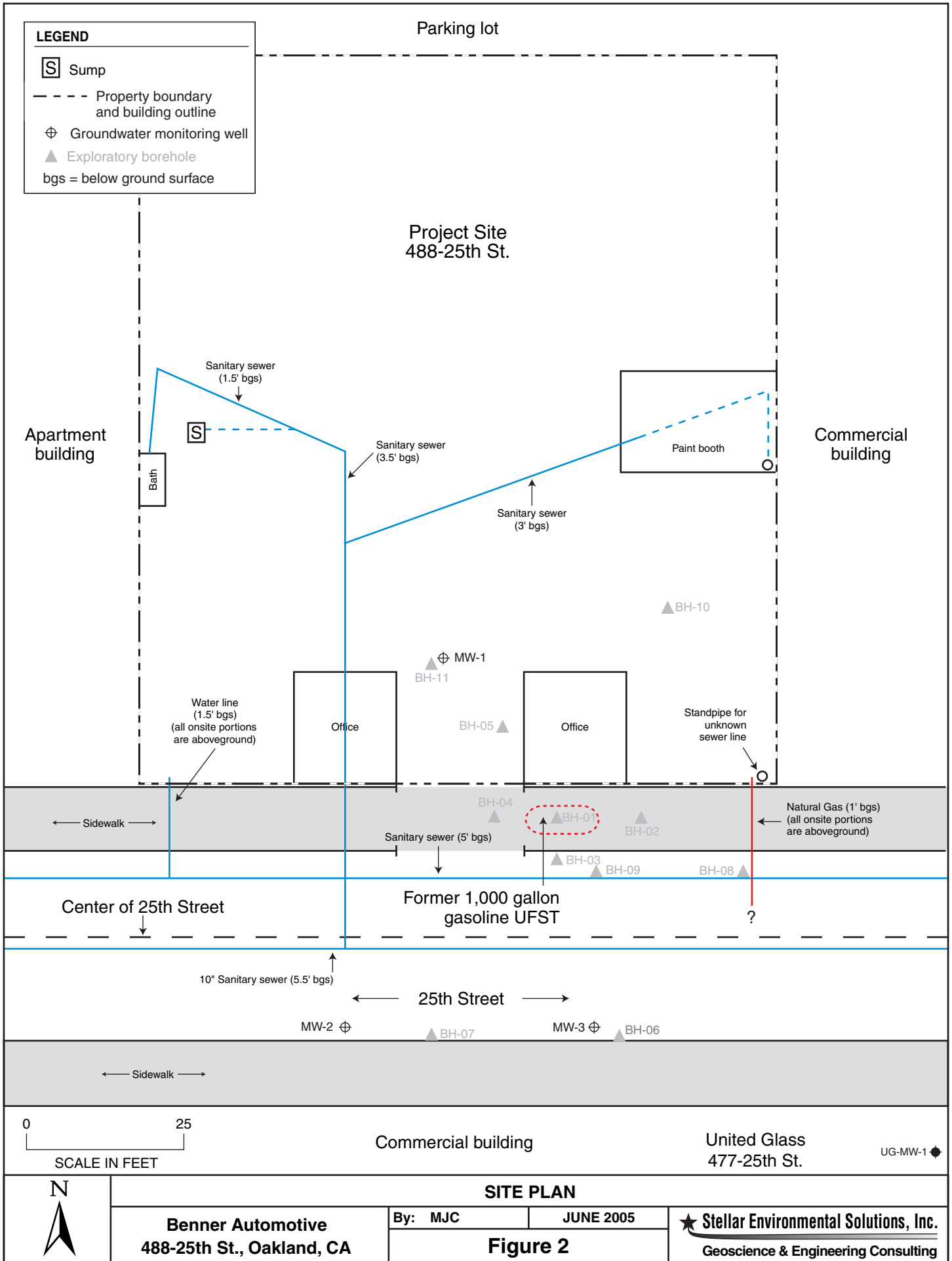
By: MJC

JANUARY 2003

Figure 1

★ Stellar Environmental Solutions
Geoscience & Engineering Consulting

2002-55-01



2002-555-59

contamination, except for an inactive groundwater monitoring well (installed to monitor a fuel release) at a property across the street. A preferential pathway survey was also conducted to identify underground utility trenches that may act as a preferential pathway for groundwater contamination. Only sanitary and storm sewer lines located approximately 150 feet west (crossgradient) of the subject property were potentially at the depth of groundwater. Based on the distance of these lines from the site, they are unlikely to intercept site-sourced groundwater and thus act as preferential contaminant migration pathways.

- **May 2005.** Three groundwater monitoring wells were installed, developed, surveyed, and sampled in May 2005 as the first quarterly groundwater monitoring event at the subject site.
- **August and November 2005.** Quarterly groundwater monitoring events #2 and #3 were conducted.

This event represents the fourth consecutive quarterly groundwater monitoring event at the site.

OBJECTIVES AND SCOPE OF WORK

This report discusses the following activities conducted/coordinated by SES between January 1 and March 31, 2006:

- Collecting water levels in site wells to determine shallow groundwater flow direction; and
- Sampling site wells for contaminant analysis and indicators of natural attenuation.

REGULATORY OVERSIGHT

The lead regulatory agency for the site investigation and remediation is Alameda County Health. All workplans and reports are submitted to this agency. The most recent Alameda County Health directive regarding the site (letter dated January 6, 2004) approved the well installation and quarterly groundwater monitoring and sampling.

The site is in compliance with the State Water Resources Control Board's GeoTracker requirements for uploading electronic data and reports. In addition, electronic copies of technical documentation reports published since Q3 2005 have been uploaded to Alameda County Health's file transfer protocol (ftp) system. Per Alameda County Health's October 31, 2005 "Miscellaneous Administrative Topics and Procedures" directive, effective January 31, 2006, paper copies of reports will no longer be submitted to Alameda County Health.

2.0 PHYSICAL SETTING

This section discusses the site lithology and groundwater hydrology, based on the three borehole sampling programs, conducted in 2003 through 2005. Appendix D contains geologic cross-sections for the site.

Including the 3 well installation boreholes advanced in May 2005, a total of 14 exploratory boreholes at the subject property have been geologically logged (using the visual method of the Unified Soils Classification System) and evaluated. The majority of site boreholes have been advanced to at least 24 feet bgs. One of the 2005 well installation boreholes was advanced to 30 feet bgs. These intervals include the upper water-bearing zone and the underlying low-permeability non-water-bearing zone (aquitarde).

LITHOLOGY

A laterally-extensive clay (occasionally gravelly) is present in all boreholes, extending from ground surface to approximately 17 to 20 feet bgs. In two of the boreholes, a thin (1- to 3-foot-thick) sandy lens was encountered between 10 and 15 feet bgs. The clay layer is generally underlain by a sand or gravel unit, beginning at depths of 18.5 to 21.5 feet bgs. This more permeable unit varies in thickness from 2.5 feet to at least 5.5 feet. In the majority of boreholes, this unit consists of sand grading downward into gravel. A clay unit was encountered below the sand/gravel unit in most of the boreholes greater than 20 feet bgs. In several of the boreholes, the underlying clay unit was not reached, but is likely shallower than 30 feet bgs. The lithology is typical of this area of Oakland, showing lenticular lenses of more permeable sand and gravel (paleochannels) flanked by low-permeability clays and silts (overbank deposits). These deposits typically display small-scale lateral and vertical heterogeneity.

The borehole advanced through the former UFST excavation encountered backfill material (gravelly, clayey silt) to a depth of approximately 9 feet bgs, underlain by native soil (as described above).

GROUNDWATER HYDROLOGY

In the July 2003 borehole program, very moist to wet soil samples were encountered in site boreholes, at depths of approximately 9.5 to 12 feet bgs, with equilibrated groundwater levels in boreholes at approximately 10 feet bgs.

In the July 2004 program, there was no evidence of water in any boreholes above 12 feet bgs (either saturated samples or measurable water in boreholes). Water entered the boreholes after the sampling rods were advanced from 12 to 16 feet bgs, and the water quickly rose to depths of approximately 7 to 10 feet bgs. In the majority of boreholes, groundwater was first encountered in the upper clay unit rather than the underlying sand/gravel unit. Relatively dry soils were encountered below this upper water-bearing zone, and groundwater was again encountered in the fully saturated sands at approximately 20 feet bgs. The underlying clay unit showed little to no water.







In the May 2005 boreholes, there was no evidence of water in any boreholes above 20 feet bgs (either saturated samples or measurable water in boreholes). Water entered the boreholes after the sampling rods were advanced from 20 to 24 feet bgs, and the water quickly rose to depths of approximately 9 to 10 feet bgs. The underlying clay unit showed little to no moisture.

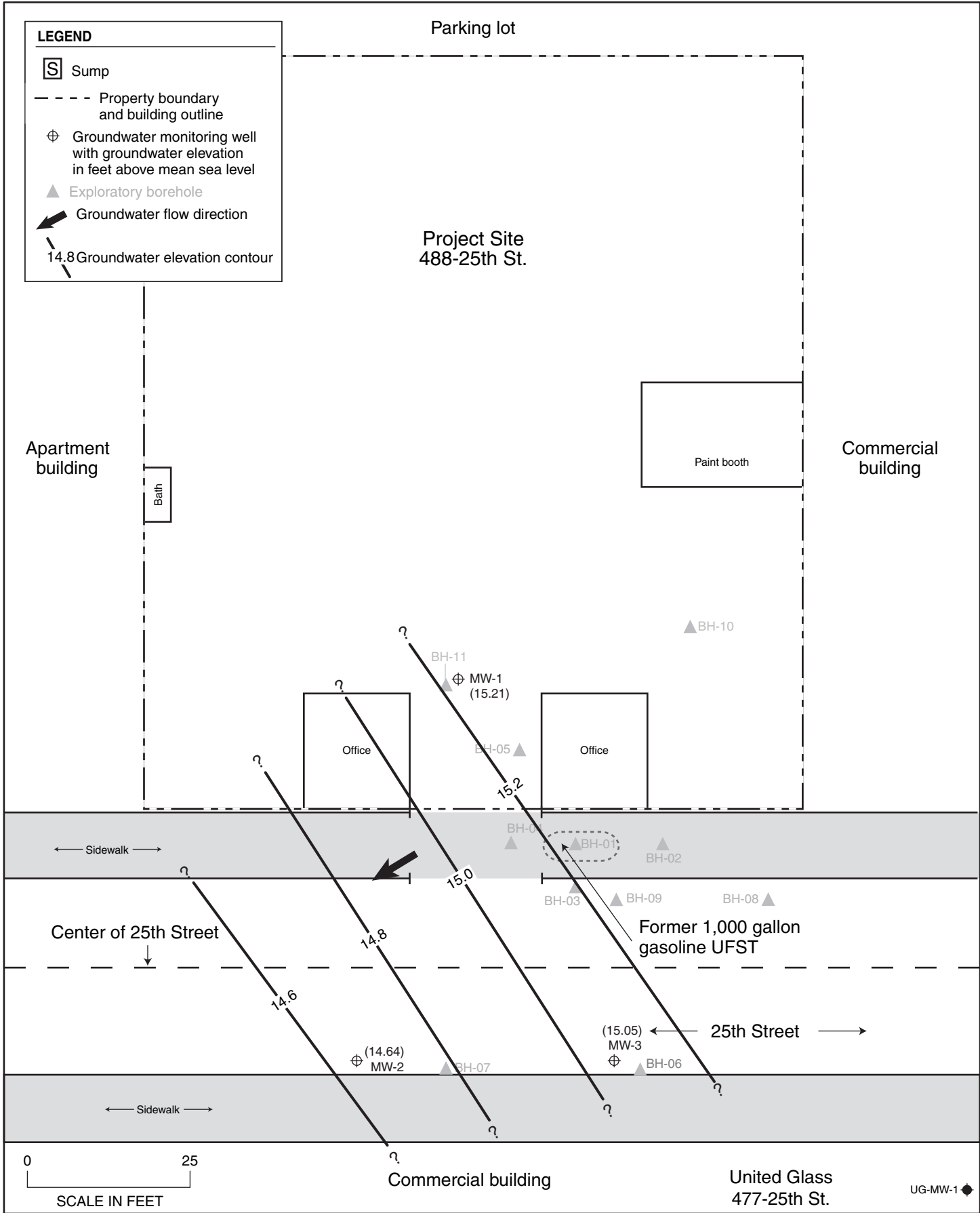
Depth to groundwater (equilibrated in wells) in the February 2006 monitoring event ranged from approximately 8.8 to 10.0 feet below grade (corresponding to approximately 14.6 to 15.2 feet above mean sea level). These equilibrated water levels in the wells were several feet above first occurrence of saturated cuttings in boreholes, indicating that groundwater at the site occurs under confining or semi-confining conditions. The direction of local groundwater flow in this event was to the southwest, with a hydraulic gradient of approximately 0.01 feet/foot. Figure 3 shows groundwater elevations and flow contours for the most recent monitoring event.

Section 6.0 discusses historical groundwater elevation and flow direction data.

The “Geo Well” data for this event (water levels) were uploaded in electronic data file (EDF) format to the GeoTracker on-line database.

LEGEND

-  Sump
-  Property boundary and building outline
-  Groundwater monitoring well with groundwater elevation in feet above mean sea level
-  Exploratory borehole
-  Groundwater flow direction
-  14.8 Groundwater elevation contour



FEBRUARY 24, 2006 GROUNDWATER ELEVATIONS

**Benner Automotive
488-25th St., Oakland, CA**

By: MJC

FEBRUARY 2006

Figure 3



2002-555-69

3.0 FEBRUARY 2006 GROUNDWATER WELL SAMPLING

This section presents the groundwater monitoring and sampling methods for the most recent groundwater sampling event. Analytical results are discussed in a subsequent section. Activities included:

- Measuring static water levels with an electric water level indicator;
- Purging wells to obtain representative formation water (and collecting aquifer stability parameters between each purging); and
- Collecting post-purge groundwater samples for laboratory analysis.

Groundwater monitoring well water level measurements, purging, and sampling activities were conducted on February 24, 2006 by Dysert Environmental, Inc. under the supervision of SES personnel. Table 1 shows the well construction and groundwater elevation data. Appendix A contains the groundwater monitoring field records for the sampling event.

Table 1
Groundwater Monitoring Well Construction and Groundwater Elevation Data
February 24, 2006 – 488 25th Street, Oakland, California

| Well | Well Depth | Screened Interval | TOC Elevation | Groundwater Elevation |
|------|------------|-------------------|---------------|-----------------------|
| MW-1 | 25 | 10 to 25 | 25.24 | 15.21 |
| MW-2 | 25 | 10 to 25 | 23.71 | 14.64 |
| MW-3 | 25 | 10 to 25 | 23.86 | 15.05 |

Notes:

TOC = Top of casing.

All wells are 1-inch-diameter. All elevations are in feet above mean sea level.

As the first task of the monitoring event, static water levels were measured using an electric water level indicator. Each well was then purged (with a downhole pump) of three wetted casing volumes. Aquifer stability parameters were measured between each purged casing volume to ensure that representative formation water entered the well before sampling. Neither separate-phase petroleum product nor sheen was observed during well purging/sampling.

4.0 REGULATORY CONSIDERATIONS

REGULATORY STATUS

The lead regulatory agency for petroleum contamination cases in the City of Oakland is Alameda County Health, which is a Local Oversight Program (LOP) for the State Water Resources Control Board (covering Regional Water Quality Control Board [Water Board] Region 2). As such, Alameda County Health directly oversees soil and groundwater investigations/remediation on UFST sites (with or without Water Board guidance) until determining that case closure is appropriate, at which time Alameda County Health recommends case closure to the Water Board. Alameda County Health has designated the case as Fuel Leak Case No. RO002518. The site is listed in the GeoTracker database of reported releases from petroleum UFSTs (Global ID T0600114301).

RESIDUAL CONTAMINATION REGULATORY CONSIDERATIONS

The most applicable published numerical criteria governing residual soil and groundwater contamination at this site are the Water Board's Environmental Screening Levels (ESLs) (Water Board, 2005). These are screening-level criteria used to evaluate if additional investigation and/or remediation is warranted. Criteria to be considered in using the ESLs include: contamination limited to surface soil (less than 10 feet deep) or to subsurface soil; fine-grained vs. coarse-grained soil; residential or commercial/industrial land use; and whether groundwater is or is not a known or potential drinking water source. For the detected site contaminants, the ESL values are the same for surface soil and subsurface soil.

The appropriate ESLs for this site are for coarse-grained soil (a conservative assumption, as grain-size analysis has not been conducted and the soils are generally clay) and commercial/industrial land use (because the owner has no plans to redevelop the property with residential land use). Qualifying for the (usually higher) ESL values for sites where groundwater is not a current or potential drinking water source requires obtaining a site-specific variance from the Water Board. The Water Board completed an East Bay Beneficial Use Study (Water Board, 1999) that covers the Richmond-to-Hayward East Bay Basin Area and, based on multiple technical criteria, divided the Basin into three zones:

- Zone A (significant drinking water resource);
- Zone B (groundwater unlikely to be used as drinking water source); and
- Zone C (shallow groundwater proposed for redesignation as Municipal Supply Beneficial Use).

The subject site falls within Zone A. The most conservative assumption for the site is that there is a potential for private drinking water wells to be impacted. However, a search of vicinity water wells identified no wells downgradient of the subject property (SES, 2004c). There is an inactive groundwater monitoring well immediately downgradient of the site; however, that well was installed to monitor a fuel release. This suggests that the less conservative ESLs of “a potential or current drinking water source is not threatened” may be appropriate for this site. As case closure is being requested in this report, this report discusses residual soil and groundwater contamination relative to both drinking water and non-drinking water criteria.

Section 6.0 contains a discussion of site closure criteria and an evaluation of current site conditions relative to those criteria.

ELECTRONIC DATA REPORTING COMPLIANCE

This site is listed in the GeoTracker database, and all required electronic uploads have been made for previous site activities. Tasks conducted in this phase of work related to GeoTracker compliance include:

- Uploading *GeoWell* data (water level monitoring-related data for the Q1 2006 monitoring event).
- Uploading *GeoReport* (portable data format [pdf]) electronic copy of this report.
- Uploading *EDD* (electronic version) of the analytical laboratory report for the Q1 2006 groundwater sampling event.

An electronic copy of the report was uploaded to Alameda County Health’s ftp system.

5.0 ANALYTICAL RESULTS AND FINDINGS

This section discusses the findings of the most recent sampling event. Historical groundwater monitoring well analytical results are included as Appendix C, and are discussed in detail in Section 6.0.

All groundwater samples in this groundwater monitoring event were analyzed for:

- Total volatile hydrocarbons – gasoline range (TVHg), by modified EPA Method 8015.
- BTEX (benzene, toluene, ethylbenzene, and xylenes); MTBE (methyl *tertiary*-butyl ether); fuel oxygenates (TAME, ETBE, DIPE, TBA, and ethanol); and lead scavengers (1,2-dibromoethane [EDB] and 1,2-dichloroethane [EDC]), by EPA Method 8260.

The groundwater samples were analyzed by EnTech Analytical Labs (Santa Clara, California), which maintains current ELAP certifications for all of the analytical methods utilized in this investigation. Appendix B contains the certified analytical laboratory reports and chain-of-custody records.

Table 2 summarizes the groundwater sample analytical results from the four quarterly groundwater monitoring events conducted to date.

Only one site contaminant was detected (and in only one monitoring well) in the current event. EDC was detected in MW-3 at 0.84 microgram per liter ($\mu\text{g/L}$). The Water Board ESL for EDC is 0.5 $\mu\text{g/L}$. Contaminants analyzed for and not detected in the current event include TVHg, BTEX, MTBE, EDB, and all of the fuel oxygenates.

The analytical laboratory report for this (and previous) event was uploaded in EDF format to the GeoTracker on-line database.

Table 2
Historical Groundwater Monitoring Well Groundwater Analytical Results – 488 25th Street, Oakland

| Sample I.D. | TVHg | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE | Fuel Oxygenates ^(a) |
|--|------------------|-----------------|-----------------|-----------------|----------------|--------------------------|--------------------------------|
| May 2005 Event | | | | | | | |
| MW-1 | 64 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 0.5 | ND |
| MW-2 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 0.5 | ND |
| MW-3 | 57 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 0.5 | ND |
| August 2005 Event | | | | | | | |
| MW-1 | 66 | < 0.5 | 0.57 | < 0.5 | < 1.00 | < 5.0 | ND |
| MW-2 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 5.0 | ND |
| MW-3 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 5.0 | EDC = 0.62 |
| November 2005 Event | | | | | | | |
| MW-1 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 1.0 | ND |
| MW-2 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 1.0 | ND |
| MW-3 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 1.0 | EDC = 0.62 |
| February 2006 Event | | | | | | | |
| MW-1 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 1.0 | ND |
| MW-2 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 1.0 | ND |
| MW-3 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.00 | < 1.0 | EDC = 0.84 |
| Groundwater ESLs ^(b) | 100 / 500 | 1.0 / 46 | 40 / 130 | 30 / 290 | 13 / 13 | 5.0 / 1,800 | EDC = 0.50 / 200 |
| Drinking Water Standards ^(c) | NLP | 5.0 | 1,000 | 700 | 10,000 | 13 ^(c) | Various |

Notes:

^(a) Table reports only detected fuel oxygenates and lead scavengers.

^(b) ESLs = Regional Water Quality Control Board, San Francisco Bay Region Environmental Screening Levels for commercial/industrial sites. First value is for sites where groundwater is a potential drinking water resource; second value is for sites where groundwater is not a potential drinking water resource.

^(c) Primary Maximum Contaminant Level, unless specified otherwise.

^(d) State of California Public Health Goal.

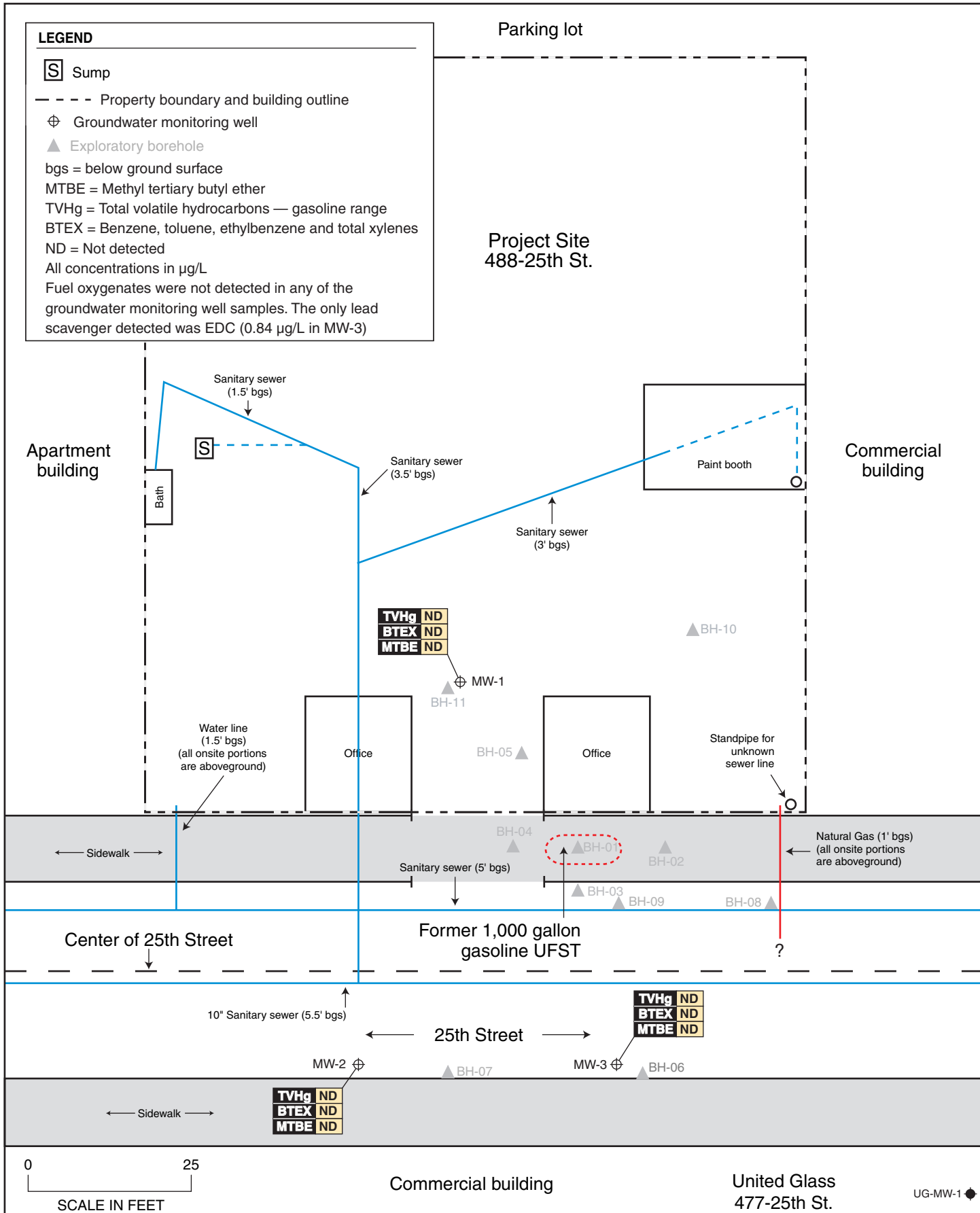
EDC = 1,2-dichloroethane
 MTBE = methyl *tertiary*-butyl ether
 TVHg = total volatile hydrocarbons, gasoline range

ND = not detected (see Appendix B for reporting limits)
 NLP = no level published

All concentrations are in micrograms per liter (µg/L).

LEGEND

- S Sump
- - - - Property boundary and building outline
- ⊕ Groundwater monitoring well
- ▲ Exploratory borehole
- bgs = below ground surface
- MTBE = Methyl tertiary butyl ether
- TVHg = Total volatile hydrocarbons — gasoline range
- BTEX = Benzene, toluene, ethylbenzene and total xylenes
- ND = Not detected
- All concentrations in µg/L
- Fuel oxygenates were not detected in any of the groundwater monitoring well samples. The only lead scavenger detected was EDC (0.84 µg/L in MW-3)



| | |
|------|----|
| TVHg | ND |
| BTEX | ND |
| MTBE | ND |

| | |
|------|----|
| TVHg | ND |
| BTEX | ND |
| MTBE | ND |

| | |
|------|----|
| TVHg | ND |
| BTEX | ND |
| MTBE | ND |

FEBRUARY 2006 GROUNDWATER ANALYTICAL RESULTS

Benner Automotive
488-25th St., Oakland, CA

By: MJC

MARCH 2006

Figure 4



2002-55-70

6.0 DATA EVALUATION AND PETITION FOR CLOSURE

This section evaluates the observed hydrologic conditions and contaminant concentrations and distribution, in the context of regulatory closure criteria.

WATER LEVEL TRENDS

Appendix D contains historical (since inception) groundwater elevation data, including groundwater elevation contour maps. Figure 5 shows a trendline of site groundwater elevations over the four quarters of monitoring. In general, groundwater elevations showed a declining trend in the dry season followed by an increase in the rainy season. This is a common seasonal trend observed in the upper water-bearing zone in the Bay Area region. An anomalously low groundwater elevation was measured in well MW-2 in November 2005.

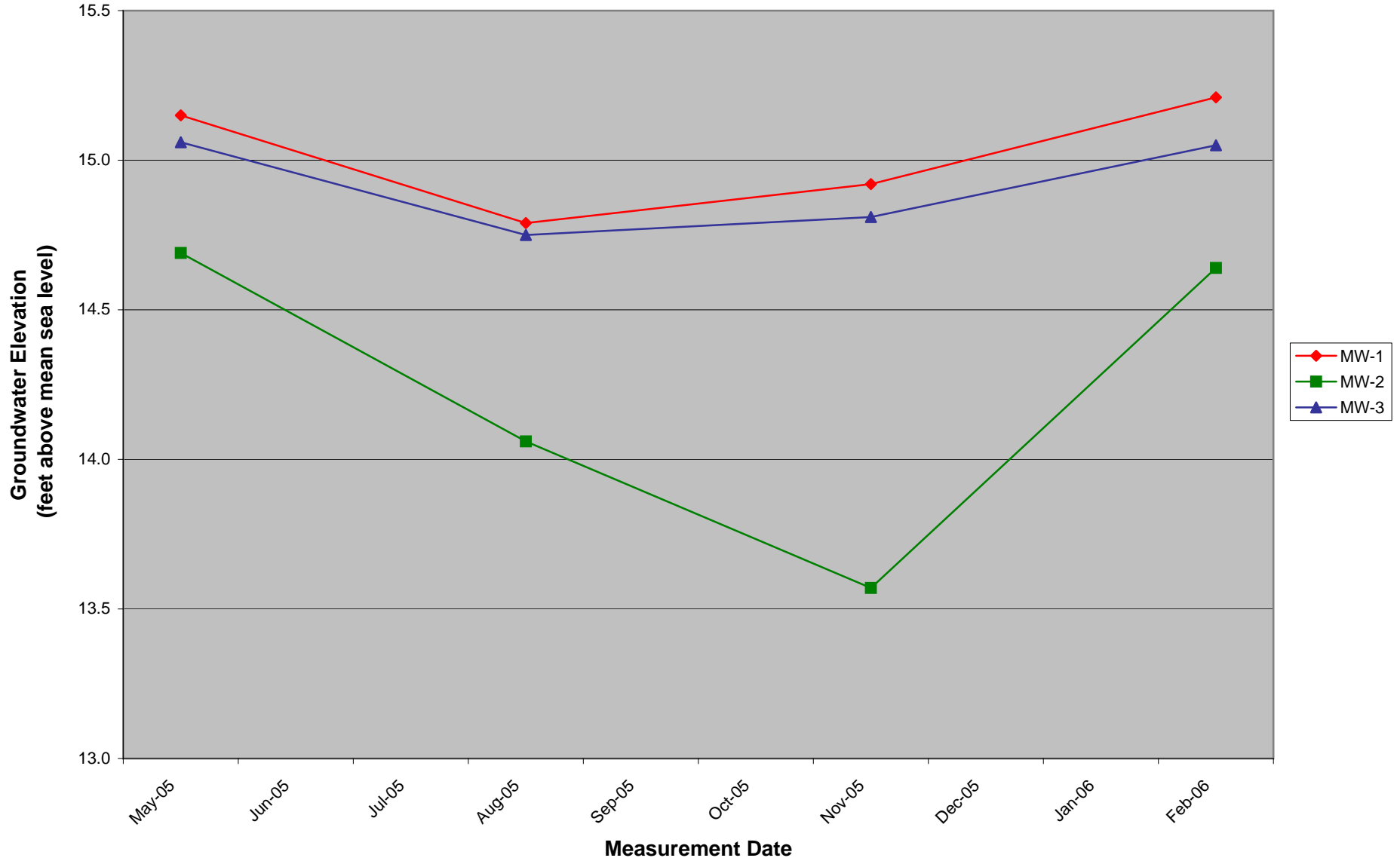
Apparent local flow direction has been consistently to the west or west-southwest in the four quarterly events. Groundwater gradient has been fairly consistent at 0.01 to 0.02 feet/foot.

HYDROCHEMICAL TRENDS AND CONTAMINANT DISTRIBUTION

The four quarters of groundwater analytical data show the following:

- Gasoline was detected in two wells in the initial groundwater monitoring event (maximum of 64 µg/L), and was detected in the next event (in only one well) at 67 µg/L. Gasoline was not detected in the subsequent two events.
- Toluene was detected only once (in the second event), at 0.57 µg/L.
- The lead scavenger EDC was been detected in the final three events (only in MW-3), at concentrations between 0.62 µg/L and 0.84 µg/L. There was no correlation between EDC detection and other contaminants in this well.
- Contaminants analyzed for and not detected in any of the four events include: benzene, ethylbenzene, xylenes, MTBE, fuel oxygenates, and the lead scavenger EDB.
- There is no apparent correlation between seasonal water level trends and contaminant concentrations.

**Figure 5: Historical Groundwater Elevations in Monitoring Wells
488 - 25th Street, Oakland, California**



Appendix C contains historical soil and grab-groundwater sample analytical data. The site data collected to date suggest that:

1. Residual soil contamination by gasoline (only) above ESL criteria is confined laterally to the immediate vicinity of the former UFST, and attenuates rapidly with increasing depth. No soil contamination has been detected in the low-permeability clay zone underlying the upper water-bearing zone. The low to non-detectable contaminant concentrations in groundwater monitoring wells confirms that residual soil contamination likely will not have a continued impact on groundwater.
2. Grab-groundwater samples collected from boreholes prior to well installation contained elevated levels of gasoline; toluene, ethylbenzene, and xylenes (but no benzene); and MTBE—at up to 2 orders of magnitude greater than has been detected in monitoring wells. In our professional opinion, this is a common condition in which the annular filter pack of the monitoring well reduces turbidity, thereby reducing dissolved solids that have sorbed contamination.
3. The only contaminant detected in the previous two groundwater monitoring events above the most restrictive ESL (potential drinking water resource scenario) is EDC, which has been present at maximum concentrations of 0.84 µg/L, marginally exceeding the 0.5-µg/L criterion. The less restrictive ESL (non-drinking water scenario) for EDC is 200 µg/L.
4. The completed one year of consecutive quarterly groundwater monitoring appears sufficient to demonstrate groundwater flow direction, gradient, and seasonal trends in groundwater hydrology.
5. Available borehole geologic data are sufficient to evaluate site lithology in the context of contaminant distribution and potential migrational pathways.

CLOSURE CRITERIA ASSESSMENT

Alameda County Health and the Water Board generally require that the following criteria be met before issuing regulatory closure of contaminant cases:

1. *The contaminant source (i.e., the UFST and obviously-contaminated backfill material) has been removed.* This criterion has been met, and the available soil analytical results indicate that the majority of contaminated soil has been removed and that residual gasoline contamination will not be an appreciable long-term source of groundwater contamination.
2. *The groundwater contaminant plume is well characterized, and is stable or reducing in magnitude and extent.* As discussed above, in our professional opinion, this criterion has been met.

3. *If residual contamination (in soil or groundwater) exists, there is no reasonable risk to sensitive receptors (i.e., contaminant discharge to surface water or water supply wells) or to site occupants. A 2005 vicinity well survey and sensitive receptor survey identified no water supply wells or sensitive receptors likely to be impacted by the release.*

In our professional opinion, this site meets the closure criteria. The data collected to date form the basis for our petition for site closure following this event.

7.0 SUMMARY CONCLUSIONS AND PROPOSED ACTIONS

SUMMARY AND CONCLUSIONS

The available data support the following findings and conclusions:

- One 1,000-gallon gasoline UFST was removed in January 2003 under regulatory oversight, along with 40 tons of obviously-contaminated backfill material. Gasoline was detected at 2,500 milligrams per kilogram (mg/kg) in native soil 2 feet beneath the UFST (at a depth of 9 feet); BTEX and MTBE concentrations were less than approximately 2 mg/kg each. Groundwater was not encountered (at the excavation depth of 9 feet).
- The lead agency for UFST-related petroleum contamination sites is Alameda County Health, which has provided oversight of this case since the UFST removal report was submitted in January 2003.
- The subject property is located within Water Board Zone A (Significant Drinking Water Source Potential) designation, as described in the 1999 East Bay Plain Beneficial Use Study.
- Groundwater occurs under semi-confining conditions, equilibrating at depths approximately 10 feet above first occurrence (2005 program). Local groundwater flow direction is to the west or southwest with a relatively shallow hydraulic gradient.
- The lateral and vertical extent of soil contamination above regulatory agency screening levels is well defined by available data, and appears to be limited to an approximately 2-foot-thick zone above groundwater, in the immediate vicinity of the former UFST excavation. The data suggest that no significant mass of residual soil contamination exists to act as a long-term source of groundwater contamination; this is likely due to the age of the release and the subsequent diffusion of hydrocarbons to groundwater. No contamination above ESL criteria has been detected in the unsaturated clay unit that underlies the shallow water-bearing zone.
- Groundwater contamination in the 2005 well baseline sampling event was several orders of magnitude below concentrations in the 2003 and 2004 borehole programs. This could be due to a combination of factors, including the filtration of contaminated dissolved solids by the well annular filter pack and/or seasonal fluctuations in groundwater levels and concomitant “pulses” of dissolved contamination. However, it is unlikely that the reduced concentrations are the result of either natural attenuation or plume migration.

- Current contaminant concentrations in groundwater do not exceed Water Board ESL criteria—except for EDC, which was detected in well just above the 0.5-μg/L ESL.
- Neither soil nor groundwater concentrations exceed ESL criteria for potential indoor air impacts.
- The property owner has been accepted into, and has been receiving reimbursement from, the State of California Underground Storage Tank Cleanup Fund (Fund) for regulatory agency-directed corrective action and investigation costs.
- All required electronic uploads for previous work have been made to the State GeoTracker on-line database system, and this report was also uploaded to the Alameda County Health ftp system.

PETITION FOR CLOSURE

- The Responsible Party hereby petitions Alameda County Health to grant case closure. When granted, the wells will be closed in accordance with local permitting requirements, and a well closure documentation report will be submitted to Alameda County Health.
- The property owner will continue to pursue reimbursement of eligible incurred corrective action costs from the Fund.

8.0 REFERENCES

- Alameda County Health Care Services Agency, Environmental Health Services (Alameda County Health), 2004. Letter requesting scope of work revisions to technical workplan for 488 25th Street, Oakland, California. March 23.
- Alameda County Health Care Services Agency, Environmental Health Services (Alameda County Health), 2003a. Letter requesting technical workplan for 488 25th Street, Oakland, California. April 2.
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- Alameda County Health Care Services Agency, Environmental Health Services (Alameda County Health), 2003c. Letter approving technical workplan for 488 25th Street, Oakland, California. July 8.
- Alameda County Health Care Services Agency, Environmental Health Services (Alameda County Health), 2003d. Letter requesting additional site characterization activities for 488 25th Street, Oakland, California. December 17.
- Regional Water Quality Control Board (Water Board), San Francisco Bay Region, 2005. Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater.
- Regional Water Quality Control Board (Water Board), San Francisco Bay Region, 1999. East Bay Plain Groundwater Basin Beneficial Use Evaluation Report. June.
- Stellar Environmental Solutions, Inc. (SES), 2005a. Groundwater Monitoring Well Installation and Sampling Specifications, Benner Automotive – 488 25th Street, Oakland, California. March 23.
- Stellar Environmental Solutions, Inc. (SES), 2005b. Groundwater Monitoring Well Installation and Baseline Groundwater Monitoring Report, Benner Automotive – 488 25th Street, Oakland, California. June 20.

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Stellar Environmental Solutions, Inc. (SES), 2005d. Fourth Quarter 2005 Groundwater Monitoring Report, Benner Automotive – 488 25th Street, Oakland, California. December 19.

Stellar Environmental Solutions, Inc. (SES), 2004a. Workplan for Groundwater Characterization, Benner Automotive, 488 25th Street, Oakland, California. February 13.

Stellar Environmental Solutions, Inc. (SES), 2004b. Workplan Addendum for Groundwater Characterization, Benner Automotive, 488 25th Street, Oakland, California. March 26.

Stellar Environmental Solutions, Inc. (SES), 2004c. Additional Site Characterization Report, Benner Automotive Facility, 488 25th Street, Oakland, California. August 9.

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Stellar Environmental Solutions, Inc. (SES), 2003b. Workplan for Site Investigation – Benner Auto Repair, Inc. Facility, 488 25th Street, Oakland, California. April 21.

Stellar Environmental Solutions, Inc. (SES), 2003c. Revisions to Workplan for Site Investigation – Benner Auto Repair, Inc. Facility, 488 25th Street, Oakland, California. July 2.

Stellar Environmental Solutions, Inc. (SES), 2003d. Preliminary Site Assessment Report – Benner Automotive, 488 25th Street, Oakland, California. July 2.

9.0 LIMITATIONS

This report has been prepared for the exclusive use of the Joseph and Loretta Benner Family Trust, Benner Automotive, their authorized representatives, and the regulatory agencies. No reliance on this report shall be made by anyone other than those for whom it was prepared.

The findings and conclusions presented in this report are based on a review of previous investigators' findings at the site, as well as site investigations conducted by SES since 2003. This report has been prepared in accordance with generally accepted methodologies and standards of practice. The SES personnel who performed this limited remedial investigation are qualified to perform such investigations and have accurately reported the information available, but cannot attest to the validity of that information. No warranty, expressed or implied, is made as to the findings, conclusions, and recommendations included in the report.

The findings of this report are valid as of the present. Site conditions may change with the passage of time, natural processes, or human intervention, which can invalidate the findings and conclusions presented in this report. As such, this report should be considered a reflection of the current site conditions as based on the activities completed.

APPENDIX A

Current Event Well Monitoring and Sampling Field Records

Dysert Environmental, Inc.

FLUID-LEVEL MONITORING DATA

Project No: _____ Date: 2-24-06

Project/Site Location: BESCHER Auto Repair 488 25th St. OAKLAND

Technician: JWS Method: _____

| Boring/Well | Depth to Water (feet) | Depth to Product (feet) | Product Thickness (feet) | Total Well Depth (feet) | Comments |
|-------------|-----------------------|-------------------------|--------------------------|-------------------------|----------|
| MW-1 | 10.03 | - | - | 24.65 | e1314 |
| MW-2 | 9.07 | - | - | 24.20 | e1312 |
| MW-3 | 8.81 | - | - | 24.85 | e1310 |
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Measurements referenced to top of well casing.

**DYSERT ENVIRONMENTAL, INC.
WELL PURGING / SAMPLING DATA**

PROJECT: BARRIER LAGOON REPAIR
SITE LOCATION: 438 25TH S

DATE: 2-24-06

CITY: OAKLAND

STATE: CA

circle one 12volt submersible pump peristaltic pump bladder pump disposable bailer

PURGE DEVICE

circle one bladder pump peristaltic pump disposable Bailer other
casing diameter (inches) circle one 0.75 2 4 6
casing volumes (gallons) circle one 0.02 0.2 0.7 1.52

SAMPLING DEVICE

WELL DATA

SAMPLER: JWS

WELL NUMBER / FIELD POINT ID: MW-1

A. TOTAL WELL DEPTH: 24.65

B. DEPTH TO WATER: 10.03

C. WATER HEIGHT (A-B): 14.62

D. WELL CASING DIAMETER: .75

E. CASING VOLUME: 0.02

F. SINGLE CASE VOLUME (Cx E): 0.29

G. CASE VOLUME (s) (Cx Ex 3): 0.87

H: 80% RECHARGE LEVEL (F+B): 10.32

PURGE DATA

START TIME: 1602

PUMP DEPTH: 12'

FINISH TIME: 1608

PUMP DEPTH: 19'

RECHARGE / SAMPLE TIME

DEPTH TO WATER: 17.12 & 16.13 16.59 TIME MEASURED: 1630

GREATER THAN OR EQUAL TO 80% RECHARGE LEVEL (H): circle one YES NO

SAMPLE TIME: 1630 DEPTH TO WATER: 16.59

SAMPLE APPEARANCE / ODOR: CLEAR - NO ODOR

TOTAL GALLONS PURGED: 1.0

WELL FLUID PARAMETERS

| CASE VOL. | 0 | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | POST |
|------------|--------------|-----|--------------|-----|--------------|-----|--------------|--------------|
| Ph | <u>6.62</u> | | <u>6.74</u> | | <u>6.73</u> | | <u>7.71</u> | <u>6.69</u> |
| TEMP in °C | <u>19.7</u> | | <u>19.8</u> | | <u>19.5</u> | | <u>19.6</u> | <u>19.6</u> |
| COND / SC | <u>133.7</u> | | <u>133.4</u> | | <u>134.7</u> | | <u>137.0</u> | <u>137.3</u> |
| DO in mg/L | | | | | | | | <u>1.85</u> |
| DO in % | | | | | | | | <u>20.2%</u> |
| ORP | | | | | | | | |
| TURBIDITY | | | | | | | | |

**DYSERT ENVIRONMENTAL, INC.
WELL PURGING / SAMPLING DATA**

PROJECT: BEARER AUTO REPAIR
SITE LOCATION: 488 25TH ST

DATE: 2-24-06

CITY: OAKLAND

STATE: CA

circle one 12volt submersible pump circle one peristaltic pump bladder pump disposable bailer

SAMPLING DEVICE

circle one bladder pump peristaltic pump circle one disposable bailer other
casing diameter (inches) circle one 0.75 2 4 6
casing volumes (gallons) circle one 0.02 0.2 0.7 1.52

WELL DATA

SAMPLER: JW

WELL NUMBER / FIELD POINT ID: MW-2

A. TOTAL WELL DEPTH: 24.20

B. DEPTH TO WATER: 9.07

C. WATER HEIGHT (A-B): 15.13

D. WELL CASING DIAMETER: 0.75

E. CASING VOLUME: 0.02

F. SINGLE CASE VOLUME (Cx): 0.30

G. CASE VOLUME (s) (CxEx 3): 0.91

H: 80% RECHARGE LEVEL (F+B): 9.37

PURGE DATA

START TIME: 13:49

PUMP DEPTH: 12

FINISH TIME: 1554

PUMP DEPTH: 20

RECHARGE / SAMPLE TIME

DEPTH TO WATER: 15.28 @ 1555

TIME MEASURED: 50

GREATER THAN OR EQUAL TO 80% RECHARGE LEVEL (H): circle one YES NO

SAMPLE TIME: 1622

DEPTH TO WATER: 12.22

SAMPLE APPEARANCE / ODOR: CLEAR AND NO ODOR

TOTAL GALLONS PURGED: 1.0

WELL FLUID PARAMETERS

| CASE VOL. | 0 | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | POST |
|------------|-------|-----|-------|-----|-------|-----|-------|-----------|
| Ph | 6.66 | | 6.67 | | 6.70 | | 6.74 | 6.72 |
| TEMP in °C | 18.2 | | 18.2 | | 18.7 | | 18.3 | 18.8 |
| COND / SC | 128.8 | | 127.3 | | 127.1 | | 126.9 | 125.3 |
| DO in mg/L | | | | | | | | 25.6% |
| DO in % | | | | | | | | 2.32 mg/l |
| ORP | | | | | | | | |
| TURBIDITY | | | | | | | | |

**DYSERT ENVIRONMENTAL, INC.
WELL PURGING / SAMPLING DATA**

PROJECT: Removal Auto Repair
SITE LOCATION: 588 25th St.

DATE: 2-24-06

CITY: OAKLAND

STATE: CA

PURGE DEVICE

circle one 12volt submersible pump peristaltic pump bladder pump disposable bailer

SAMPLING DEVICE

circle one bladder pump peristaltic pump disposable bailer other

casing diameter (inches) circle one 0.75 2 4 6
casing volumes (gallons) circle one 0.02 0.2 0.7 1.52

WELL DATA

SAMPLER:

WELL NUMBER / FIELD POINT ID: 24 MW 3

A. TOTAL WELL DEPTH: 24.85

B. DEPTH TO WATER: 8.81

C. WATER HEIGHT (A-B): 16.04

D. WELL CASING DIAMETER: 0.75

E. CASING VOLUME: 0.02

F. SINGLE CASE VOLUME (Cx E): 0.32

G. CASE VOLUME (s) (Cx Ex 3): 0.96

H: 80% RECHARGE LEVEL (F+B): 9.13

PURGE DATA

START TIME: 1528

PUMP DEPTH: 12'

FINISH TIME: 1533

PUMP DEPTH: 12'

RECHARGE / SAMPLE TIME

DEPTH TO WATER: 0.21 @ 1534 9.13 TIME MEASURED: 1539

GREATER THAN OR EQUAL TO 80% RECHARGE LEVEL (H): circle one **YES** NO

SAMPLE TIME: 1540 DEPTH TO WATER: 9.13

SAMPLE APPEARANCE / ODOR: clear / no odor

TOTAL GALLONS PURGED: 1.0 gal

WELL FLUID PARAMETERS

| CASE VOL. | 0 | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | POST |
|------------|-------|-----|-------|-----|-------|-----|-------|-------|
| Ph | 6.71 | | 6.72 | | 6.76 | | 6.81 | 6.60 |
| TEMP in °C | 18.6 | | 18.6 | | 19.2 | | 19.2 | 18.8 |
| COND / SC | 339 | | 187.2 | | 168.6 | | 152.1 | 123.8 |
| DO in mg/L | | | | | | | | 1.79 |
| DO in % | | | | | | | | 19.7% |
| ORP | | | | | | | | |
| TURBIDITY | clear | | | | | | | |

APPENDIX B

Current Event Analytical Laboratory Report & Chain-of-Custody Record

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Bruce Rucker
Stellar Environmental Sol.
2198 Sixth Street Suite 201
Berkeley, CA 94710

Lab Certificate Number: 48095

Issued: 03/13/2006

Global ID: T0600114301

Project Name: Benner Auto Repair
Project Location: 488 25th St. /Oakland

Certificate of Analysis - Final Report

On February 27, 2006, samples were received under chain of custody for analysis.
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

| <u>Matrix</u> | <u>Test / Comments</u> |
|---------------|--|
| Liquid | Electronic Deliverables EPA 8260B for Groundwater and Water - EPA 624 for Wastewater Volatile-GC |

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Stellar Environmental Sol.
2198 Sixth Street Suite 201
Berkeley, CA 94710
Attn: Bruce Rucker

Project Name: Benner Auto Repair
Project Location: 488 25th St. /Oakland
GlobalID: T0600114301

Certificate of Analysis - Data Report

Samples Received: 02/27/2006
Sample Collected by: Client

Lab # : 48095-001 Sample ID: MW-1

Matrix: Liquid Sample Date: 2/24/2006

Volatile-GC

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|--------------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 50 | µg/L | N/A | N/A | 3/3/2006 | WGC060303 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: mruan | |
| 4-Bromofluorobenzene | 85.8 | | 65 | - 135 | | | | Reviewed by: dba | |

EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-------------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|-----------------------|-------------|
| Benzene | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| Toluene | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| Ethyl Benzene | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| Xylenes, Total | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| Methyl-t-butyl Ether | ND | | 1.0 | 1.0 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| tert-Butyl Ethyl Ether | ND | | 1.0 | 5.0 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| tert-Butanol (TBA) | ND | | 1.0 | 10 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| Diisopropyl Ether | ND | | 1.0 | 5.0 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| tert-Amyl Methyl Ether | ND | | 1.0 | 5.0 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| 1,2-Dichloroethane | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM2B060309B |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: TAF | |
| 4-Bromofluorobenzene | 91.8 | | 60 | - 130 | | | | Reviewed by: MaiChiTu | |
| Dibromofluoromethane | 100 | | 60 | - 130 | | | | | |
| Toluene-d8 | 99.0 | | 60 | - 130 | | | | | |

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Stellar Environmental Sol.
2198 Sixth Street Suite 201
Berkeley, CA 94710
Attn: Bruce Rucker

Project Name: Benner Auto Repair
Project Location: 488 25th St. /Oakland
GlobalID: T0600114301

Certificate of Analysis - Data Report

Samples Received: 02/27/2006

Sample Collected by: Client

Lab # : 48095-002

Sample ID: MW-2

Matrix: Liquid Sample Date: 2/24/2006

Volatile-GC

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|--------------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 50 | µg/L | N/A | N/A | 3/3/2006 | WGC060303 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: mruan | |
| 4-Bromofluorobenzene | 88.3 | | 65 | - 135 | | | | Reviewed by: dba | |

EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-------------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|-----------------------|-----------|
| Benzene | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Toluene | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Ethyl Benzene | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Xylenes, Total | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Methyl-t-butyl Ether | ND | | 1.0 | 1.0 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| tert-Butyl Ethyl Ether | ND | | 1.0 | 5.0 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| tert-Butanol (TBA) | ND | | 1.0 | 10 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Diisopropyl Ether | ND | | 1.0 | 5.0 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| tert-Amyl Methyl Ether | ND | | 1.0 | 5.0 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: XBian | |
| 4-Bromofluorobenzene | 101 | | 60 | - 130 | | | | Reviewed by: MaiChiTu | |
| Dibromofluoromethane | 112 | | 60 | - 130 | | | | | |
| Toluene-d8 | 100 | | 60 | - 130 | | | | | |

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Stellar Environmental Sol.
2198 Sixth Street Suite 201
Berkeley, CA 94710
Attn: Bruce Rucker

Project Name: Benner Auto Repair
Project Location: 488 25th St. /Oakland
GlobalID: T0600114301

Certificate of Analysis - Data Report

Samples Received: 02/27/2006

Sample Collected by: Client

Lab # : 48095-003 Sample ID: MW-3

Matrix: Liquid Sample Date: 2/24/2006

Volatile-GC

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|----------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|--------------------|-----------|
| TPH as Gasoline | ND | | 1.0 | 50 | µg/L | N/A | N/A | 3/3/2006 | WGC060303 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: mruan | |
| 4-Bromofluorobenzene | 85.1 | | 65 | - 135 | | | | Reviewed by: dba | |

EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

| Parameter | Result | Qual | D/P-F | Detection Limit | Units | Prep Date | Prep Batch | Analysis Date | QC Batch |
|-------------------------|---------------------------|------|---------------------------|-----------------|-------|-----------|------------|-----------------------|-----------|
| Benzene | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Toluene | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Ethyl Benzene | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Xylenes, Total | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Methyl-t-butyl Ether | ND | | 1.0 | 1.0 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| tert-Butyl Ethyl Ether | ND | | 1.0 | 5.0 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| tert-Butanol (TBA) | ND | | 1.0 | 10 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Diisopropyl Ether | ND | | 1.0 | 5.0 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| tert-Amyl Methyl Ether | ND | | 1.0 | 5.0 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| 1,2-Dichloroethane | 0.84 | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.50 | µg/L | N/A | N/A | 3/10/2006 | WM1060310 |
| Surrogate | Surrogate Recovery | | Control Limits (%) | | | | | Analyzed by: XBian | |
| 4-Bromofluorobenzene | 86.4 | | 60 | - 130 | | | | Reviewed by: MaiChiTu | |
| Dibromofluoromethane | 109 | | 60 | - 130 | | | | | |
| Toluene-d8 | 110 | | 60 | - 130 | | | | | |

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - Volatile-GC

QC Batch ID: WGC060303

Validated by: dba - 03/07/06

QC Batch Analysis Date: 3/3/2006

| Parameter | Result | DF | PQLR | Units |
|-----------------|--------|----|------|-------|
| TPH as Gasoline | ND | 1 | 50 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 87.0 | 65 - 135 |

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1060310

Validated by: MaiChiTu - 03/13/06

QC Batch Analysis Date: 3/10/2006

| Parameter | Result | DF | PQLR | Units |
|-------------------------|--------|----|------|-------|
| 1,2-Dibromoethane (EDB) | ND | 1 | 0.50 | µg/L |
| 1,2-Dichloroethane | ND | 1 | 0.50 | µg/L |
| Benzene | ND | 1 | 0.50 | µg/L |
| Diisopropyl Ether | ND | 1 | 5.0 | µg/L |
| Ethyl Benzene | ND | 1 | 0.50 | µg/L |
| Methyl-t-butyl Ether | ND | 1 | 1.0 | µg/L |
| tert-Amyl Methyl Ether | ND | 1 | 5.0 | µg/L |
| tert-Butanol (TBA) | ND | 1 | 10 | µg/L |
| tert-Butyl Ethyl Ether | ND | 1 | 5.0 | µg/L |
| Toluene | ND | 1 | 0.50 | µg/L |
| Xylenes, Total | ND | 1 | 0.50 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 100 | 60 - 130 |
| Dibromofluoromethane | 108 | 60 - 130 |
| Toluene-d8 | 98.3 | 60 - 130 |

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM2B060309B

Validated by: MaiChiTu - 03/13/06

QC Batch Analysis Date: 3/9/2006

| Parameter | Result | DF | PQLR | Units |
|-------------------------|--------|----|------|-------|
| 1,2-Dibromoethane (EDB) | ND | 1 | 0.50 | µg/L |
| 1,2-Dichloroethane | ND | 1 | 0.50 | µg/L |
| Benzene | ND | 1 | 0.50 | µg/L |
| Diisopropyl Ether | ND | 1 | 5.0 | µg/L |
| Ethyl Benzene | ND | 1 | 0.50 | µg/L |
| Methyl-t-butyl Ether | ND | 1 | 1.0 | µg/L |
| tert-Amyl Methyl Ether | ND | 1 | 5.0 | µg/L |
| tert-Butanol (TBA) | ND | 1 | 10 | µg/L |
| tert-Butyl Ethyl Ether | ND | 1 | 5.0 | µg/L |
| Toluene | ND | 1 | 0.50 | µg/L |
| Xylenes, Total | ND | 1 | 0.50 | µg/L |

| Surrogate for Blank | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 90.9 | 60 - 130 |
| Dibromofluoromethane | 99.6 | 60 - 130 |
| Toluene-d8 | 97.7 | 60 - 130 |

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - Volatile-GC

QC Batch ID: WGC060303

Reviewed by: dba - 03/07/06

QC Batch ID Analysis Date: 3/3/2006

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|-----------------|--------------|-----------|-------------|-------|------------|-----------------|
| TPH as Gasoline | <50 | 120 | 113 | µg/L | 90.4 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 104.0 | 65 - 135 |

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|-----------------|--------------|-----------|-------------|-------|------------|-----|------------|-----------------|
| TPH as Gasoline | <50 | 120 | 118 | µg/L | 94.4 | 4.3 | 25.0 | 65 - 135 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 102.0 | 65 - 135 |

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1060310

Reviewed by: MaiChiTu - 03/13/06

QC Batch ID Analysis Date: 3/10/2006

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|----------------------|--------------|-----------|-------------|-------|------------|-----------------|
| Benzene | <0.50 | 20 | 20.5 | µg/L | 102 | 70 - 130 |
| Methyl-t-butyl Ether | <1.0 | 20 | 24.2 | µg/L | 121 | 70 - 130 |
| Toluene | <0.50 | 20 | 18.6 | µg/L | 93.0 | 70 - 130 |

Surrogate

| | % Recovery | Control Limits |
|----------------------|--------------|----------------|
| 4-Bromofluorobenzene | 97.1 | 60 - 130 |
| Dibromofluoromethane | 109.0 | 60 - 130 |
| Toluene-d8 | 91.6 | 60 - 130 |

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|----------------------|--------------|-----------|-------------|-------|------------|------------|------------|-----------------|
| Benzene | <0.50 | 20 | 19.2 | µg/L | 96.0 | 6.5 | 25.0 | 70 - 130 |
| Methyl-t-butyl Ether | <1.0 | 20 | 22.1 | µg/L | 110 | 9.1 | 25.0 | 70 - 130 |
| Toluene | <0.50 | 20 | 17.7 | µg/L | 88.5 | 5.0 | 25.0 | 70 - 130 |

Surrogate

| | % Recovery | Control Limits |
|----------------------|--------------|----------------|
| 4-Bromofluorobenzene | 92.3 | 60 - 130 |
| Dibromofluoromethane | 102.0 | 60 - 130 |
| Toluene-d8 | 89.9 | 60 - 130 |

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM2B060309B

Reviewed by: MaiChiTu - 03/13/06

QC Batch ID Analysis Date: 3/9/2006

LCS

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | Recovery Limits |
|----------------------|--------------|-----------|-------------|-------|------------|-----------------|
| 1,1-Dichloroethene | <0.50 | 20 | 18.5 | µg/L | 92.7 | 70 - 130 |
| Benzene | <0.50 | 20 | 20.3 | µg/L | 102 | 70 - 130 |
| Chlorobenzene | <0.50 | 20 | 19.4 | µg/L | 97.0 | 70 - 130 |
| Methyl-t-butyl Ether | <1.0 | 20 | 20.5 | µg/L | 102 | 70 - 130 |
| Toluene | <0.50 | 20 | 18.6 | µg/L | 92.9 | 70 - 130 |
| Trichloroethene | <0.50 | 20 | 20.2 | µg/L | 101 | 70 - 130 |

| Surrogate | % Recovery | Control Limits |
|----------------------|--------------|----------------|
| 4-Bromofluorobenzene | 95.6 | 60 - 130 |
| Dibromofluoromethane | 106.0 | 60 - 130 |
| Toluene-d8 | 91.9 | 60 - 130 |

LCSD

| Parameter | Method Blank | Spike Amt | SpikeResult | Units | % Recovery | RPD | RPD Limits | Recovery Limits |
|----------------------|--------------|-----------|-------------|-------|------------|-------------|------------|-----------------|
| 1,1-Dichloroethene | <0.50 | 20 | 17.7 | µg/L | 88.4 | 4.8 | 25.0 | 70 - 130 |
| Benzene | <0.50 | 20 | 20.5 | µg/L | 103 | 0.93 | 25.0 | 70 - 130 |
| Chlorobenzene | <0.50 | 20 | 19.6 | µg/L | 98.0 | 1.1 | 25.0 | 70 - 130 |
| Methyl-t-butyl Ether | <1.0 | 20 | 19.9 | µg/L | 99.3 | 3.1 | 25.0 | 70 - 130 |
| Toluene | <0.50 | 20 | 18.4 | µg/L | 92.1 | 0.92 | 25.0 | 70 - 130 |
| Trichloroethene | <0.50 | 20 | 19.8 | µg/L | 98.8 | 2.4 | 25.0 | 70 - 130 |

| Surrogate | % Recovery | Control Limits |
|----------------------|--------------|----------------|
| 4-Bromofluorobenzene | 95.4 | 60 - 130 |
| Dibromofluoromethane | 107.0 | 60 - 130 |
| Toluene-d8 | 91.7 | 60 - 130 |

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

MS / MSD - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM2B060309B

Reviewed by: MaiChiTu - 03/13/06

QC Batch ID Analysis Date: 3/9/2006

MS Sample Spiked: 48095-001

| Parameter | Sample Result | Spike Amount | Spike Result | Units | Analysis Date | % Recovery | Recovery Limits |
|----------------------|---------------|--------------|--------------|-------|---------------|------------|-----------------|
| Benzene | ND | 20 | 21.1 | µg/L | 3/9/2006 | 105 | 70 - 130 |
| Methyl-t-butyl Ether | ND | 20 | 21.3 | µg/L | 3/9/2006 | 106 | 70 - 130 |
| Toluene | 0.201 | 20 | 19.4 | µg/L | 3/9/2006 | 96.2 | 70 - 130 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 96.7 | 60 - 130 |
| Dibromofluoromethane | 106.0 | 60 - 130 |
| Toluene-d8 | 93.4 | 60 - 130 |

MSD Sample Spiked: 48095-001

| Parameter | Sample Result | Spike Amount | Spike Result | Units | Analysis Date | % Recovery | RPD | RPD Limits | Recovery Limits |
|----------------------|---------------|--------------|--------------|-------|---------------|------------|-----|------------|-----------------|
| Benzene | ND | 20 | 20.0 | µg/L | 3/9/2006 | 99.8 | 5.4 | 25.0 | 70 - 130 |
| Methyl-t-butyl Ether | ND | 20 | 19.0 | µg/L | 3/9/2006 | 95.2 | 11 | 25.0 | 70 - 130 |
| Toluene | 0.201 | 20 | 19.0 | µg/L | 3/9/2006 | 94.2 | 2.1 | 25.0 | 70 - 130 |

| Surrogate | % Recovery | Control Limits |
|----------------------|------------|----------------|
| 4-Bromofluorobenzene | 92.2 | 60 - 130 |
| Dibromofluoromethane | 105.0 | 60 - 130 |
| Toluene-d8 | 92.6 | 60 - 130 |

Entech Analytical Labs, Inc. Chain of Custody / Analysis Request

3334 Victor Court (408) 588-0200
 Santa Clara, CA 95054 (408) 588-0201 - Fax

ELAP No. 2346

| | | | | |
|--|-----------------------------------|--|--|-------------------------|
| Attention to: <i>Joe Duman (Ben's) Rucker</i> | Phone No.: <i>510-644-3123</i> | Purchase Order No.: | Invoice to: (If Different) | Phone: |
| Company Name: <i>STELLAR ENVIRONMENTAL</i> | Fax No.: <i>510-644-3859</i> | Project No. / Name: <i>BENNER AUTO REPAIR</i> | Company: | |
| Mailing Address: <i>2198 SIXTH ST., STE 201</i> | Email Address: | Billing Address: (If Different) | | |
| City: <i>BERKELEY</i> | State: | Zip Code: | Project Location: <i>488-25TH ST.</i> | City: <i>OAKLAND</i> |
| | | | State: <i>CA</i> | Zip: |

| | | |
|--|--|--|
| Entech Order ID: <i>48095</i> | Turn Around Time | Circle Applicable |
| EDF <input checked="" type="checkbox"/> | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> 10 Day | |
| Global ID: <i>10607114301</i> | | EPA 8260B Full List 8260 Petroleum: List includes BTEX MBE, EDBE, TBA, TAME, DIPE, 1,2-DCA, EDB EPA 8270: Base/Neutral/Acid Organics 8270 Full List PAHs Only PAHs - SIM Pesticides-8081 PCBs - 8082 TPH Extractable: Diesel, Motor Oil, Other TPH Gas Metals - Circle Below Total Dissolved STLCL TCLP |

| Sample Information | | | | Entech Lab. No. | Matrix | No. of Containers | Circle Applicable | | | | | | | | | | Remarks Instructions | |
|--------------------|-------------|---------|-------|-----------------|--------|-------------------|---------------------|---|--|-----------------|-------------|---------|---|-----------------------|----------------------------|--|----------------------|--|
| Client ID | Field Point | Date | Time | | | | EPA 8260B Full List | 8260 Petroleum: List includes BTEX MBE, EDBE, TBA, TAME, DIPE, 1,2-DCA, EDB | EPA 8270: Base/Neutral/Acid Organics 8270 Full List PAHs Only PAHs - SIM | Pesticides-8081 | PCBs - 8082 | TPH Gas | TPH Extractable: Diesel, Motor Oil, Other | Metals - Circle Below | Total Dissolved STLCL TCLP | | | |
| MW-1 | MW-1 | 2-27-06 | 10:00 | W | 4 | X | | | | | | | | | | | | |
| MW-2 | MW-2 | ↓ | 10:00 | W | 4 | X | | | | | | | | | | | | |
| MW-3 | MW-3 | ↓ | 11:30 | W | 4 | X | | | | | | | | | | | | |

*Order per Ben Rucker
 BTEX/PAHs by 8260
 TPAS by 8270 DTF*

| | | | | |
|--|------------------------------------|-------------------------|-----------------------|--|
| Relinquished by: <i>[Signature]</i> | Received by: <i>[Signature]</i> | Date: <i>2/27/06</i> | Time: <i>10:00</i> | Lab Use: <i>LOA CODE 3E3B</i> |
| Relinquished by: <i>[Signature]</i> | Received by: <i>[Signature]</i> | Date: <i>2/27/06</i> | Time: <i>11:30</i> | |
| Relinquished by: | Received by: | Date: | Time: | Metals: Al, As, Sb, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Ti, Sn, Ti, Zn, V |
| | | | | <input type="checkbox"/> Plating <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17 |

Lab Use: Samples: Iced Y/N Temperature: *5° C* Shipment Method: *Scot* If any N's, Explain:
 Appropriate Containers/Preservatives Y/N Custody Seals? Y/N *(4) Vials each rcd cold & intact*
 Labels match CoC Y/N Headspace? Y/N Separate Receipt Log Y/N *DTF*

Sample IDs match CoC Page 1 of 1

APPENDIX C

Historical Analytical Results

Table C-1
Historical and Current Soil Analytical Results
488 25th Street, Oakland, California ^(a)

| Sample I.D. | Sample Depth (feet) | TVHg | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE | Lead Scavengers and Fuel Oxygenates ^(c) |
|--|---------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| January 2003 Base of UFST Excavation Soil Samples | | | | | | | | |
| UFST Base-East | 9.0 | 2,500 | <1.7 ^(b) | <1.7 ^(b) | <1.7 ^(b) | <1.7 ^(b) | <1.7 ^(b) | NA |
| UFST Base-West | 9.0 | <1.1 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | NA |
| July 2003 Exploratory Borehole Soil Samples | | | | | | | | |
| BH-1-10' | 10.0 | 14 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.022 | NA |
| BH-1-14' | 14.0 | <1.1 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.021 | NA |
| BH-2-6.5' | 6.5 | <1.1 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.022 | NA |
| BH-2-9' | 9.0 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.020 | NA |
| BH-2-15' | 15.0 | <1.1 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.021 | NA |
| BH-3-5' | 5.0 | <1.0 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.021 | NA |
| BH-3-9' | 9.0 | <1.1 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.022 | NA |
| BH-3-13' | 13.0 | <1.0 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.021 | NA |
| BH-4-5' | 5.0 | <1.0 | <0.0051 | <0.0051 | <0.0051 | <0.0051 | <0.020 | NA |
| BH-4-9' | 9.0 | <1.0 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.021 | NA |
| BH-4-13' | 13.0 | <1.1 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.022 | NA |
| BH-5-6.5' | 6.5 | <1.1 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.022 | NA |
| BH-5-11.5' | 11.5 | 49 | <0.010 | <0.010 | <0.010 | <0.010 | <0.040 | NA |
| BH-5-13' | 13.0 | 1.7 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.021 | NA |
| July 2004 Exploratory Borehole Soil Samples | | | | | | | | |
| BH-06-4.5' | 4.5 | 7.3 | <0.0056 | <0.0056 | <0.0056 | <0.0056 | <0.0048 | ND |
| BH-06-9.5' | 9.5 | <1.1 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.0049 | ND |
| BH-06-14.5' | 14.5 | 4.9 | <0.0054 | 0.0082 | <0.0054 | <0.0054 | <0.0047 | ND |
| BH-06-19.5' | 19.5 | <1.1 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.0049 | ND |
| BH-06-22.5' | 22.5 | <1.0 | <0.0051 | <0.0051 | <0.0051 | <0.0051 | <0.0045 | ND |
| BH-07-4.5' | 4.5 | <1.1 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.0050 | ND |
| BH-07-10.5' | 10.5 | 7.9 | <0.0054 | 0.009 | <0.0054 | <0.0054 | <0.0047 | ND |
| BH-07-14.5' | 14.5 | <0.98 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0045 | ND |
| BH-07-19.5' | 19.5 | <0.96 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0049 | ND |
| BH-07-23.5' | 23.5 | <1.0 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0046 | ND |
| BH-08-4.5' | 4.5 | <1.0 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0049 | ND |
| BH-08-9.5' | 9.5 | <1.1 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.0047 | ND |
| BH-08-14.5' | 14.5 | <0.97 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0045 | ND |
| BH-08-20' | 20 | 3.6 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.0049 | ND |

(Table continued and footnotes on next page)

Table C-1 continued

| Sample I.D. | Sample Depth (feet) | TVHg | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Lead Scavengers and Fuel Oxygenates ^(c) |
|--|---------------------|------------------|--------------------|----------------------|---------------------|----------------------|----------------------|--|
| July 2004 Exploratory Borehole Soil Samples (continued) | | | | | | | | |
| BH-08-23.5' | 23.5 | <1.1 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0046 | ND |
| BH-09-4.5' | 4.5 | <1.0 | <0.0051 | <0.0051 | <0.0051 | <0.0051 | <0.0045 | ND |
| BH-09-11' | 11 | 150 | <0.0500 | <0.0500 | <0.0500 | 0.120 | <0.0049 | ND |
| BH-09-15.5' | 15.5 | <0.99 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0045 | ND |
| BH-09-19.5' | 19.5 | <0.98 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0047 | ND |
| BH-09-23.5' | 23.5 | <1.0 | <0.0051 | <0.0051 | <0.0051 | <0.0051 | <0.0049 | ND |
| BH-10-4.5' | 4.5 | <1.0 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0049 | ND |
| BH-10-9.5' | 9.5 | <1.1 | <0.0055 | <0.0055 | <0.0055 | <0.0055 | <0.0047 | ND |
| BH-10-14.5' | 14.5 | <1.0 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0048 | ND |
| BH-10-19.5' | 19.5 | <0.99 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0045 | ND |
| BH-10-23.5' | 23.5 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0047 | ND |
| BH-11-4.5' | 4.5 | <0.97 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | ND |
| BH-11-11' | 11 | 130 | <0.0250 | 0.240 | <0.0250 | <0.0250 | <0.0047 | ND |
| BH-11-15' | 15 | <1.0 | <0.0051 | <0.0051 | <0.0051 | <0.0051 | <0.0050 | ND |
| BH-11-19.5 | 19.5 | <1.0 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0048 | ND |
| BH-11-23.5' | 23.5 | <1.0 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0046 | ND |
| Soil ESLs ^(d) | | 100 / NLP | 0.045 / 0.5 | 2.6 / 420,000 | 2.5 / 13,000 | 1.0 / 100,000 | 0.028 / 5,600 | Various |

Notes:

^(a) All concentrations in mg/kg.

^(b) High concentrations of gasoline required sample dilution, resulting in the listed increased method reporting limit.

^(c) See Appendix D for full list of analytes.

^(d) ESL = RWQCB Environmental Screening Levels for commercial/industrial sites with coarse-grained soil where groundwater is a potential drinking water source. First value is for shallow soils. Second value is for evaluation of potential indoor air impacts.

TVHg = Total volatile hydrocarbons – gasoline range.

NLP = No level published.

NA = Not analyzed for these constituents.

ND = Not detected (see Appendix D for reporting limits).

Table C-2
Historical Borehole and Grab-Groundwater Analytical Results
488 25th Street, Oakland, California ^(a)

| Sample I.D. | Sample Depth (feet) | TVHg | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Lead Scavengers and Fuel Oxygenates ^(b) |
|--|---------------------|------------------|--------------------|---------------------|--------------------|---------------------|--------------------------------|--|
| July 2003 Borehole Groundwater Samples | | | | | | | | |
| BH-01-GW | ~ 10-11 | 5,800 | <0.50 | <0.50 | 7.4 | 4.5 | <2.0 | NA |
| BH-02-GW | ~ 10-11 | 7,900 | <13 | 15 | 24 | 61 | <50 | NA |
| BH-03-GW | ~ 10-11 | 3,700 | <1.0 | <1.0 | <1.0 | <1.0 | <4.0 | NA |
| BH-04-GW | ~ 10-11 | 260 | <0.50 | <0.50 | <0.50 | <0.50 | <2.0 | NA |
| BH-05-GW | ~ 10-11 | 260 | <0.50 | <0.50 | <0.50 | <0.50 | 3.1 | NA |
| July 2004 Borehole Groundwater Samples | | | | | | | | |
| BH-06-GW | ~ 12-16 | 120,000 | <13 | <13 | 70 | 540 | <1.7 | ND |
| BH-07-GW | ~ 12-16 | 2,000 | <0.50 | 3.4 | 8.1 | 14 | <0.50 | ND |
| BH-08-GW | ~ 12-16 | 380 | <0.50 | 0.77 | <0.50 | 1.6 | <0.50 | ND |
| BH-09-GW | ~ 12-16 | 7,700 | <1.0 | <1.0 | 21 | 39.7 | <0.50 | ND |
| BH-10-GW | ~ 12-16 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | ND |
| BH-11-GW | ~ 12-16 | 1,300 | <0.50 | <0.50 | 0.88 | 6.0 | 8.2 | ND |
| July 2004 United Glass Groundwater Monitoring Well Sample (grab sample) | | | | | | | | |
| MW-1 | NA | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.2 | ND |
| Groundwater ESLs ^(c) | | 100 / NLP | 1.0 / 1,800 | 40 / 530,000 | 30 / 47,000 | 13 / 160,000 | 5.0 / 80,000 | Various |
| Drinking Water Standards ^(d) | | NLP | 1.0 | 40 | 30 | 20 | 5.0 ^(e) / 13 | Various |

Notes:

^(a) All concentrations in µg/L.

^(b) See Appendix D for full list of analytes.

^(c) ESL = RWQCB Environmental Screening Levels for commercial/industrial sites with coarse-grained soil where groundwater is a potential drinking water source. First value is groundwater ESL. Second value is for evaluation of potential indoor air impacts (high permeability soil).

^(d) Primary Maximum Contaminant Level (MCL), unless specified otherwise.

^(e) Secondary (nuisance) MCL.

TVHg = Total volatile hydrocarbons – gasoline range.

NLP = No level published.






NA = Not analyzed for these constituents.

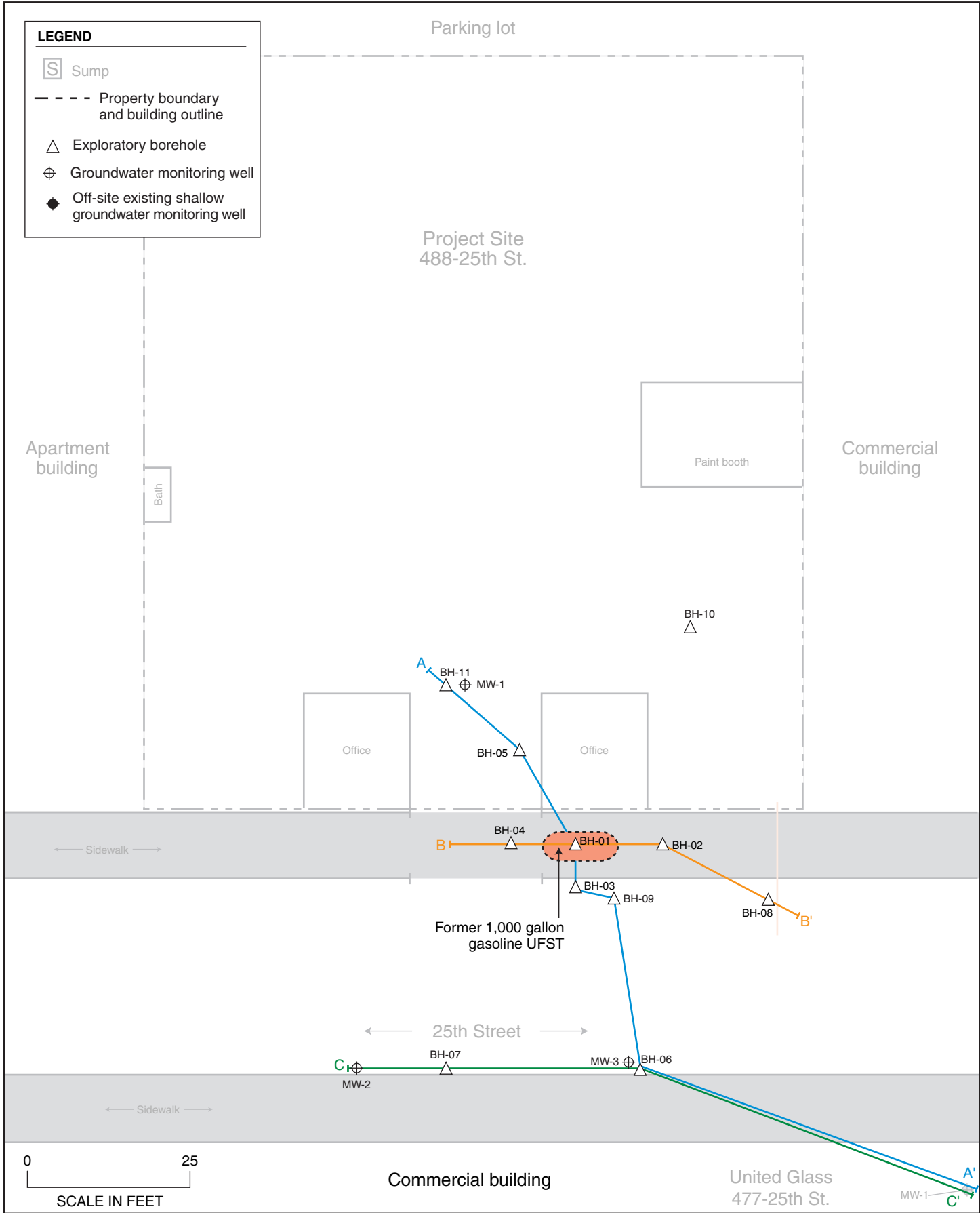
ND = Not detected (see Appendix D for reporting limits).

APPENDIX D

Site Hydrologic and Geologic Data

LEGEND

-  Sump
-  Property boundary and building outline
-  Exploratory borehole
-  Groundwater monitoring well
-  Off-site existing shallow groundwater monitoring well



SITE PLAN WITH CROSS-SECTION LOCATIONS

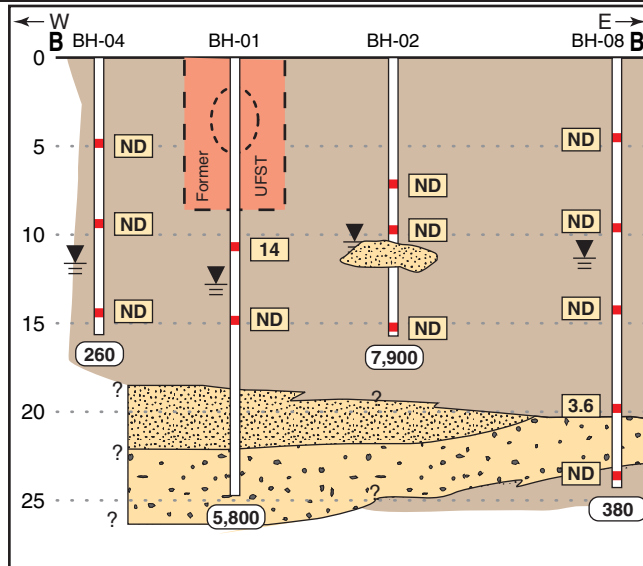
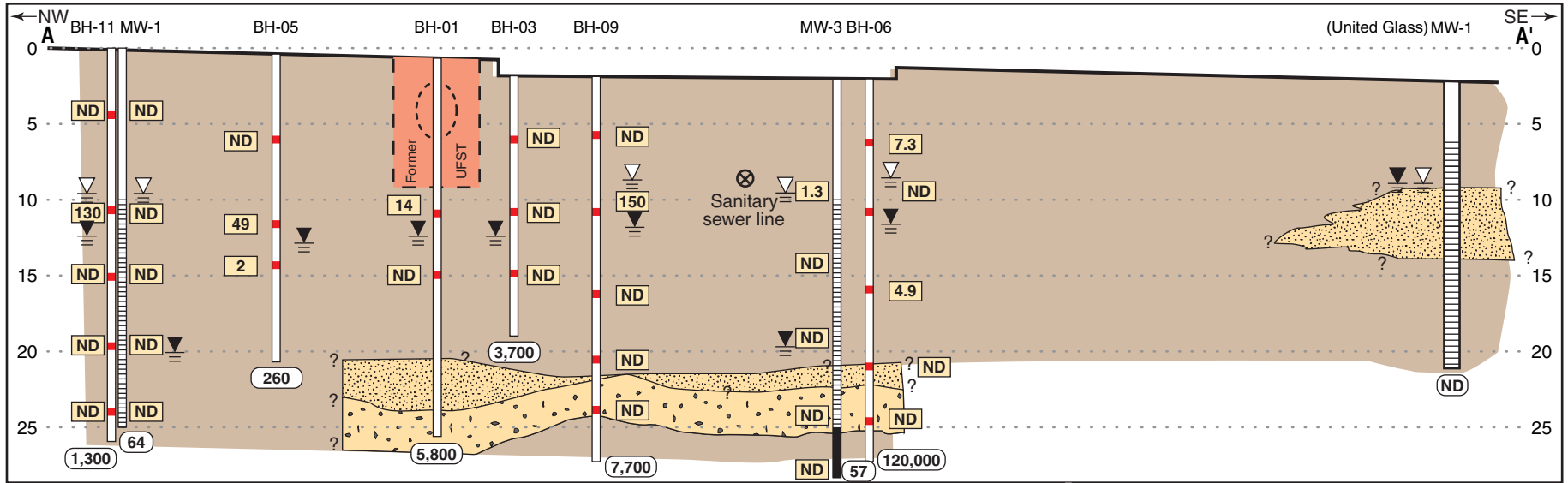
Benner Automotive
488-25th St., Oakland, CA

By: MJC

JUNE 2005

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2002-555-62



0 10
HORIZONTAL SCALE (FEET)

LEGEND

- BH-1 Exploratory Boring BH-1

Location of soil sample collected for laboratory analysis, and soil gasoline concentration (mg/Kg)
- MW-1 Monitoring Well

Well screen interval
- Silt/clay

Sand/gravel
- Water level during drilling

Equilibrated water level

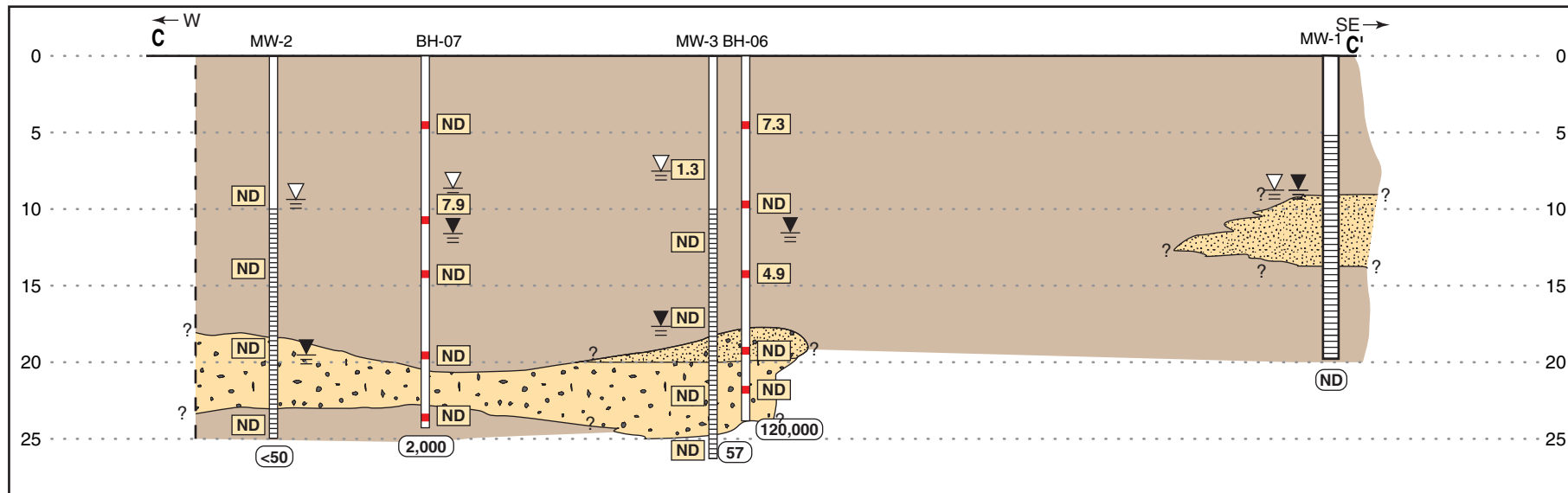
Groundwater gasoline concentration (µg/L)

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GEOLOGIC CROSS-SECTIONS A-A' & B-B'
488-25th Street, Oakland, CA

by: MJC

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LEGEND



- BH-1 Exploratory Boring BH-1
- MW-1 Monitoring Well
- Location of soil sample collected for laboratory analysis, and soil gasolene concentration (mg/Kg)
- Well screen interval
- Silt/clay
- Sand/gravel
- Water level during drilling
- Equilibrated water level
- Groundwater gasolene concentration (µg/L)







**Historical Groundwater Elevations and Depths in Monitoring Wells
488 - 25th Street, Oakland, California**

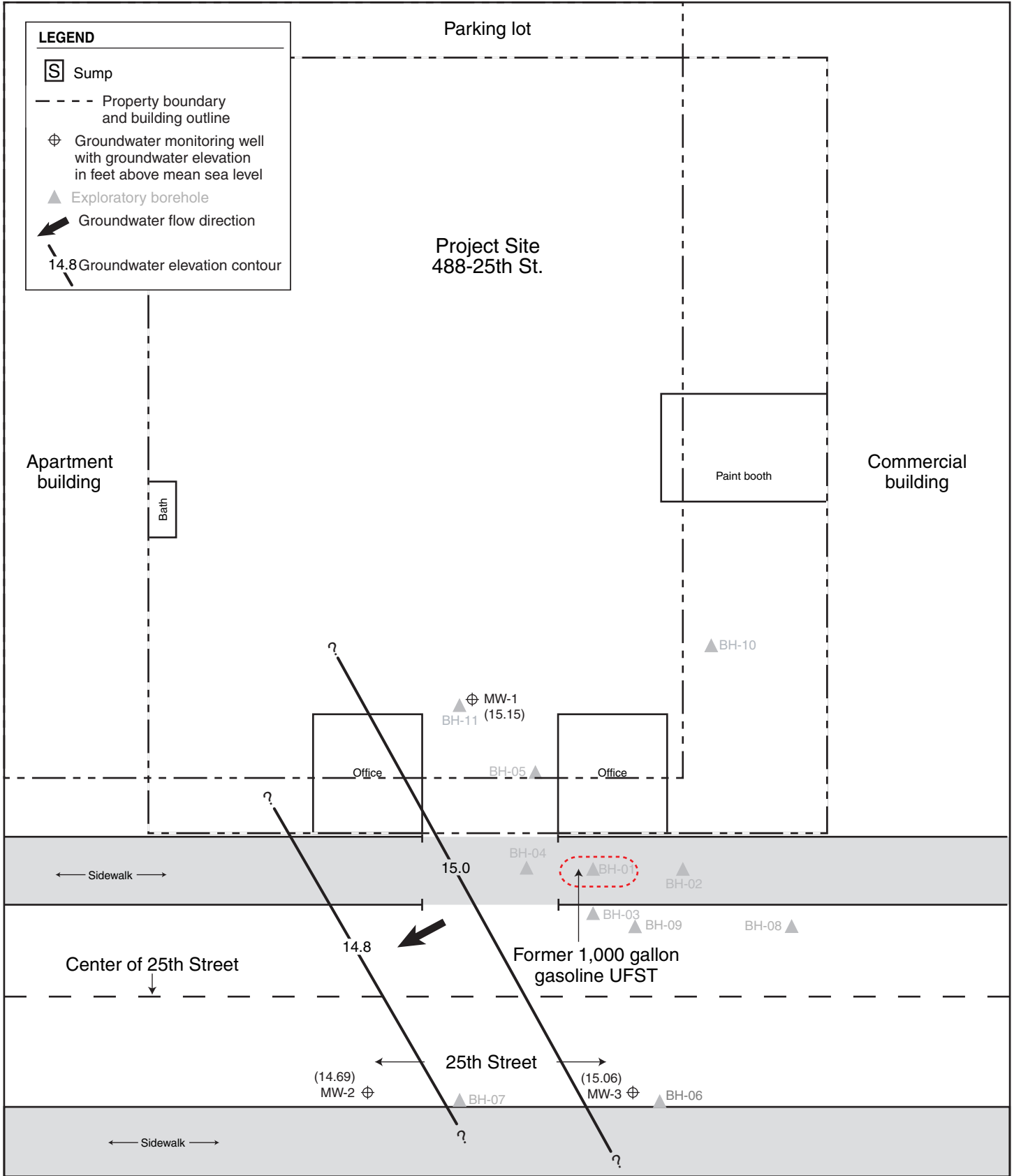
| Measurement Date | | MW-1 | MW-2 | MW-3 |
|-------------------------|--------------------------|-------------|-------------|-------------|
| May-05 | Elevation ^(a) | 15.15 | 14.69 | 15.06 |
| | Depth ^(b) | 10.09 | 9.02 | 8.8 |
| Aug-05 | Elevation ^(a) | 14.79 | 14.06 | 14.75 |
| | Depth ^(b) | 10.45 | 9.65 | 9.11 |
| Nov-05 | Elevation ^(a) | 14.92 | 13.57 | 14.81 |
| | Depth ^(b) | 10.32 | 10.14 | 9.05 |
| Feb-06 | Elevation ^(a) | 15.21 | 14.64 | 15.05 |
| | Depth ^(b) | 15.21 | 14.64 | 15.05 |

(a) Elevations are in feet above mean sea level

(b) Depths are in feet below top of well casing (approximately ground surface)

LEGEND

-  Sump
-  Property boundary and building outline
-  Groundwater monitoring well with groundwater elevation in feet above mean sea level
-  Exploratory borehole
-  Groundwater flow direction
-  14.8 Groundwater elevation contour



Commercial building

United Glass
477-25th St.

UG-MW-1

MAY 2005 GROUNDWATER ELEVATIONS

Benner Automotive
488-25th St., Oakland, CA

By: MJC







JUNE 2005

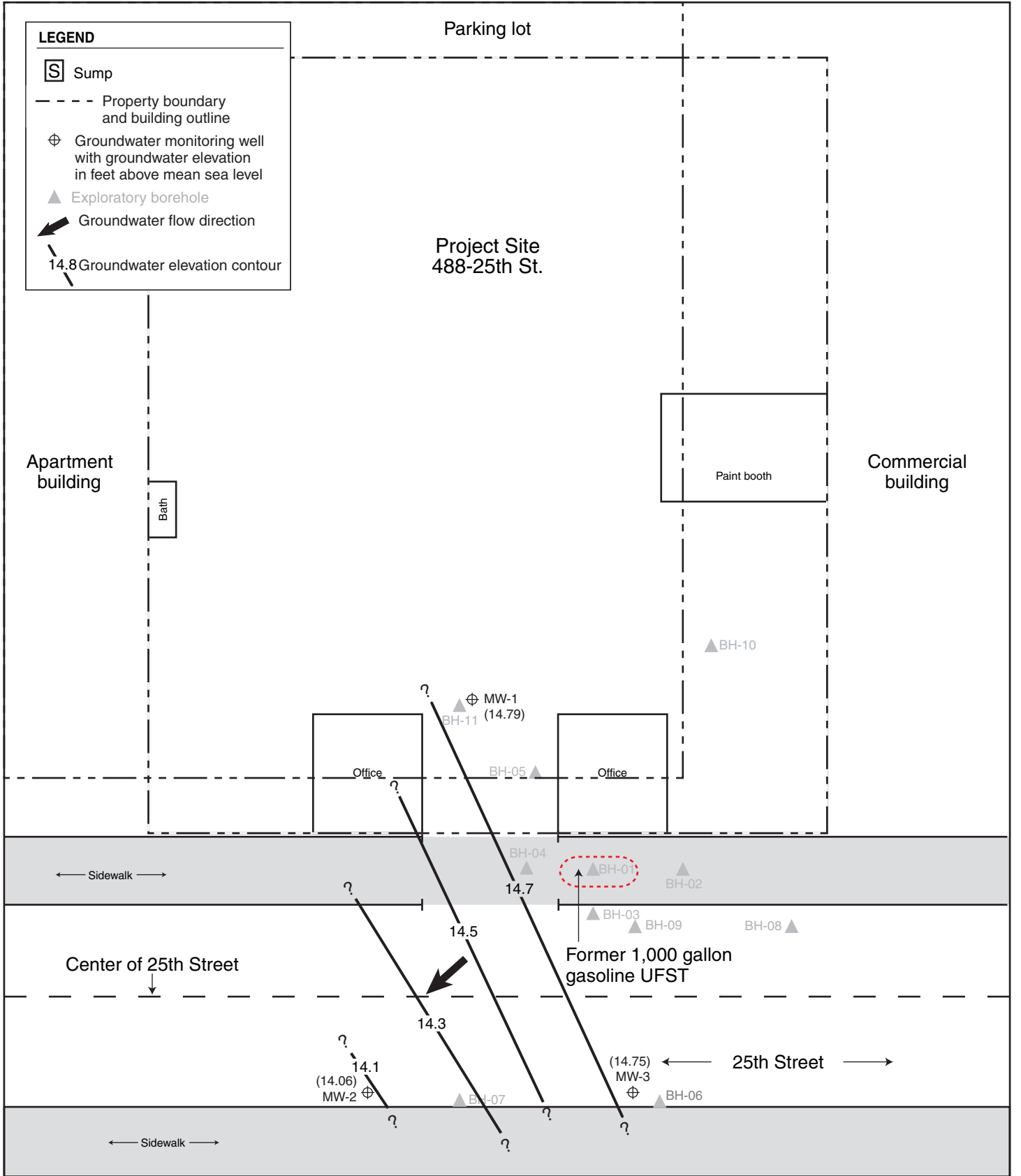
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2002-55-61



LEGEND

-  Sump
-  Property boundary and building outline
-  Groundwater monitoring well with groundwater elevation in feet above mean sea level
-  Exploratory borehole
-  Groundwater flow direction
-  14.8 Groundwater elevation contour



Commercial building

United Glass
477-25th St.

UG-MW-1

AUGUST 2005 GROUNDWATER ELEVATIONS







Benner Automotive
488-25th St., Oakland, CA

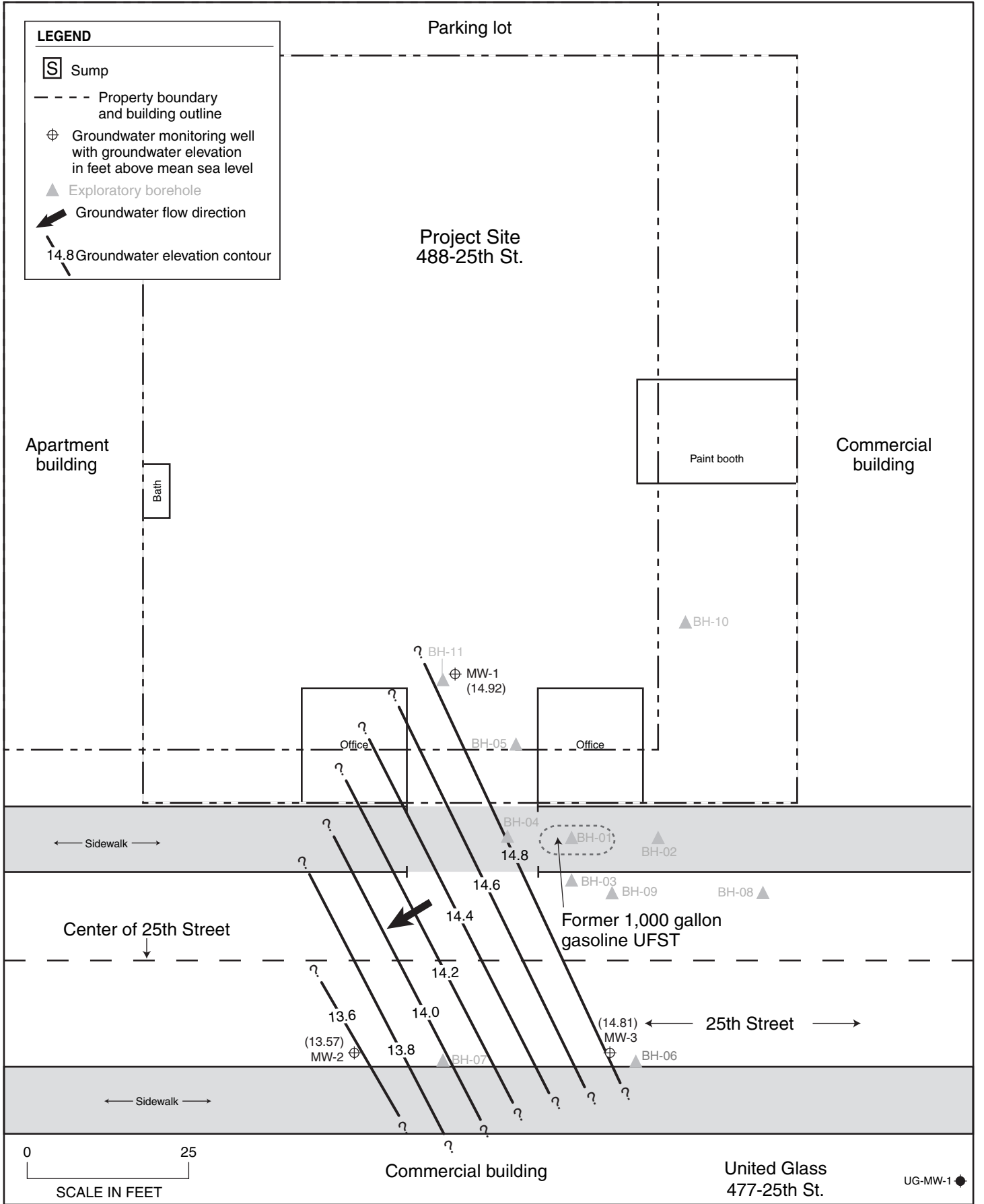
By: MJC

SEPTEMBER 2005

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LEGEND

-  Sump
-  Property boundary and building outline
-  Groundwater monitoring well with groundwater elevation in feet above mean sea level
-  Exploratory borehole
-  Groundwater flow direction
-  14.8 Groundwater elevation contour



NOVEMBER 2005 GROUNDWATER ELEVATIONS

**Benner Automotive
488-25th St., Oakland, CA**

By: MJC

DECEMBER 2005



2002-555-67