RECEIVED
OCTOBER 17, 2005
ALAMEDA COUNTY
ENVIRONMENTAL HEALTH

THIRD QUARTER 2005 GROUNDWATER MONITORING REPORT

240 W. MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Prepared for:

MR. GLEN POY-WING
OAKLAND AUTO WORKS
OAKLAND, CALIFORNIA

October 2005

STELLAR
ENVIRONMENTAL SOLUTIONS, INC.
GEOSCIENCE & ENGINEERING CONSULTING

STELLAR
ENVIRONMENTAL SOLUTIONS, INC.
2198 SIXTH STREET, SUITE 201·BERKELEY, CA 94710
TEL: (510)644-3123 · FAX: (510)644-3859
GEOSCIENCE & ENGINEERING CONSULTING

RECEIVED

OCTOBER 17, 2005

ALAMEDA COUNTY ENVIRONMENTAL HEALTH

October 12, 2005

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Environmental Health Department
Local Oversight Program
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Third Quarter 2005 Groundwater Monitoring Report
Oakland Auto Works Facility – 240 W. MacArthur Boulevard, Oakland, California
Alameda County Health Department Fuel Leak Case No. RO0000142

Dear Mr. Hwang:

Enclosed is the Stellar Environmental Solutions, Inc. report summarizing recent activities conducted at the referenced site. This report presents the findings of the Third Quarter 2005 groundwater monitoring event (the 28th site groundwater monitoring event since August 1997). This report was uploaded to both the Water Board's GeoTracker system and the Alameda County Environmental Health Department's Electronic Upload "ftp" system.

If you have any questions regarding this report, please contact us at (510) 644-3123.

Sincerely,

Bruce M. Rucker, R.G., R.E.A.
Project Manager

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

cc: Mr. Glen Poy-Wing, property owner

THIRD QUARTER 2005 GROUNDWATER MONITORING REPORT

240 W. MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Prepared for:

MR. GLEN POY-WING
OAKLAND AUTO WORKS
240 W. MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA 94612

Prepared by:

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

October 12, 2005

Project No. 2003-43

TABLE OF CONTENTS

Appendices

TABLES AND FIGURES

Tables **Page**

Figures **Page**

1.0 INTRODUCTION

PROJECT BACKGROUND

The subject property, located at 240 W. MacArthur Boulevard, Oakland, Alameda County, California, is owned by Glen Poy-Wing and his wife of Oakland Auto Works, for whom Stellar Environmental Solutions, Inc. (SES) has provided environmental consulting services since July 2003. The site has undergone contaminant investigations and remediation since 1991 (discussed below). A list of all known environmental reports is included in Section 6.0, References and Bibliography. This report presents finding for the 28th site groundwater monitoring event since monitoring began in August 1997.

In 2002, the current property owners purchased the property and assumed responsibility for continued environmental investigations. The property was formerly owned by Mr. Warren Dodson (Dodson Ltd.) and operated as Vogue Tyres.

REGULATORY STATUS

The Alameda County Environmental Health Department (Alameda County Health) is the lead regulatory agency for the case, acting as a Local Oversight Program (LOP) for the Regional Water Quality Control Board (Water Board). There are no Alameda County Health or Water Board cleanup orders for the site; however, all site work has been conducted under oversight of Alameda County Health. In our August 2003 review of the Alameda County Health case file, we determined that all known technical reports for the site were included in that file.

The previous consultant requested site closure in March 2003 (AEC, 2003a). Alameda County Health denied that request and, in a letter dated April 16, 2003, requested additional site characterization prior to considering case closure. That work was subsequently conducted by SES, and was summarized in our April 2004 Soil and Groundwater Investigation Report (SES, 2004c). In December 2004, SES submitted a workplan for interim remedial action (including additional site characterization and an evaluation of soil vapor extraction as an interim corrective action). Alameda County Health has not yet responded to that workplan.

The site is in compliance with State of California "GeoTracker" requirements. Tasks conducted include: uploading field point (well) names; surveying groundwater monitoring well horizontal and vertical coordinates, and uploading that data; and uploading groundwater monitoring

analytical data from groundwater monitoring events conducted by SES (beginning in August 2003). Beginning January 1, 2005, portable data format (pdf) electronic copies of site technical reports were uploaded to GeoTracker, along with hard-copy reports submitted to Alameda County Health. This report has also been uploaded to Alameda County Health's Electronic Upload "ftp" system.

In December 2004, the owner submitted to Alameda County Health a workplan for interim corrective action (proposing soil vapor extraction to reduce source area contaminant mass). Alameda County Health has not yet responded to that workplan.

The site has been granted a Letter of Commitment (and has been receiving financial reimbursement) from the California Underground Storage Tank Cleanup Fund.

SCOPE OF REPORT

This report discusses the following work, conducted between July 1 and September 30, 2005:

- 28th groundwater monitoring and sampling event, conducted on September 14, 2005.

SITE DESCRIPTION

The project site is located at 240 W. MacArthur Boulevard in Oakland, California (see Figure 1). The rectangular-shaped project site is approximately 14,000 square feet (140 feet long by 100 feet wide), and is oriented with its long axis parallel to W. MacArthur Boulevard (approximately northwest-southeast). The project site is essentially flat and is wholly paved. One structure currently exists on the property—an automobile servicing shop that covers approximately 50 percent of the property. The building is currently occupied by Oakland Auto Works. Figure 2 is a site plan showing adjacent land uses.

Adjacent land use includes: a Shell-branded service station (*to the south*); W. MacArthur Boulevard (*to the west*); Howe Street (*to the north*); and a paved driveway, then a multi-story (with basement) health services building (*to the east*).

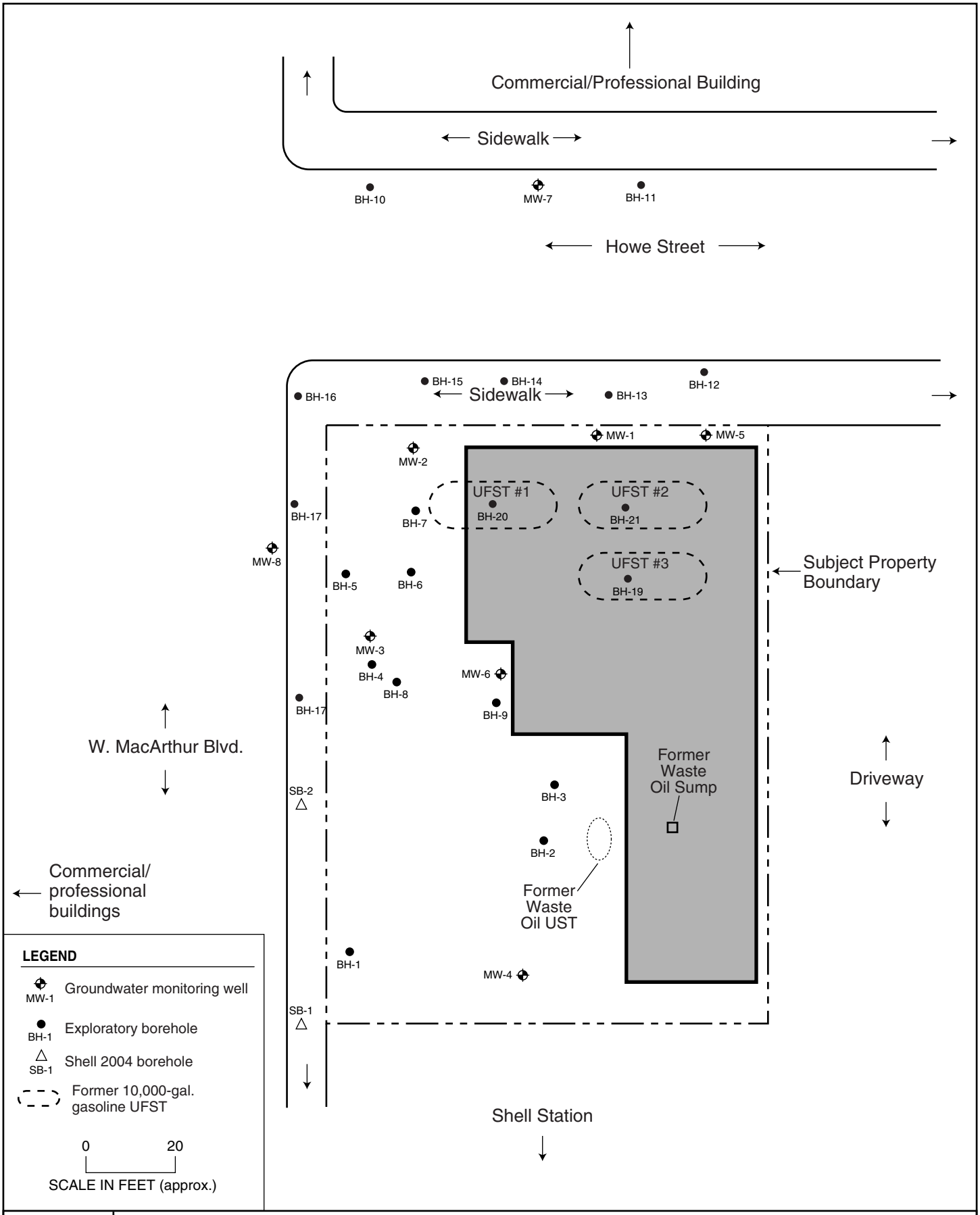
HISTORICAL ENVIRONMENTAL ACTIVITIES

This section summarizes historical (prior to the current quarter) environmental remediation and site characterization activities, based on documentation provided by the current property owners as well as Alameda County Health files. Figure 2 shows the site plan with the current groundwater well and former underground fuel storage tank (UFST) locations.

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

240 W. MacArthur Blvd. Oakland, CA	By: MJC	APRIL 2004	★ Stellar Environmental Solutions, Inc. Geoscience & Engineering Consulting
	Figure 1		

2003-43-01



SITE PLAN WITH BOREHOLE AND GROUNDWATER WELL LOCATIONS

240 W. MacArthur Blvd. Oakland, CA	**By: MJC**	**MAY 2004**
	Figure 2	

Stellar Environmental Solutions, Inc.
Geoscience & Engineering Consulting

2003-43-69

Historical remediation and site characterization activities include:

- **Pre-1991.** Three 10,000-gallon gasoline UFSTs from a former Gulf service station occupancy were removed prior to 1991 (there is no available documentation regarding the removals).
- **1991.** A waste oil sump was removed. Limited overexcavation was conducted, and there was no evidence of residual soil contamination, with the exception of 360 milligrams per kilogram (mg/kg) of petroleum oil & grease (Mittelhauser Corporation, 1991b).
- **1996.** A 350-gallon waste oil underground storage tank (UST) was removed. Elevated levels of diesel and oil & grease were detected in confirmation soil samples. Subsequent overexcavation was conducted, and there was no evidence of residual soil contamination (All Environmental, Inc., 1997a).
- **January 1997.** In accordance with a request by Alameda County Health, a subsurface investigation was conducted (All Environmental, Inc., 1997b). Six exploratory boreholes were advanced to a maximum depth of 20 feet, and soil samples were collected.
- **August 1997.** Additional site characterization was conducted; this included sampling three boreholes, installing four groundwater monitoring wells, and conducting the initial groundwater sampling event.
- **February 2001.** Four additional groundwater monitoring wells were installed. Maximum historical soil concentrations were detected in well MW-5 in the northeastern corner of the subject property: 11,700 mg/kg of gasoline and 25.6 mg/kg of benzene (AEC, 2001b).
- **October 2001.** Short-term (less than 1-day duration) groundwater and vapor extraction from five wells was conducted over 4 days (AEC, 2001e) (referred to by that consultant as “Hi-Vac” process).
- **2003.** A sensitive receptor and vicinity water well survey was conducted.
- **April 2004.** Additional site characterization was conducted, including: advancing and sampling 12 exploratory boreholes; analyzing 64 soil and 12 grab-groundwater sample results; and further evaluating site hydrogeology and contaminant extent and magnitude.

To date, a total of 28 groundwater monitoring events have been conducted at the site.

2.0 PHYSICAL SETTING

The following evaluation of the physical setting of the site—including topography, surface water drainage, and geologic and hydrogeologic conditions—is based on previous (1991 through April 2003) site investigations conducted by others, and site inspections and groundwater monitoring data collected by SES since 2003.

TOPOGRAPHY AND SURFACE WATER DRAINAGE

The site is on a gently-sloping alluvial fan at the base of the Berkeley/Oakland Hills, which rise approximately 1,100 feet above mean sea level (amsl) and are located approximately 3 miles east of San Francisco Bay. The mean elevation of the subject property is approximately 82 feet amsl. The subject property is essentially flat, with a local topographic gradient to the west. The nearest surface water bodies are: 1) Glen Echo Creek, a northeast-southwest trending creek located approximately 800 feet southeast of the subject property; and 2) Rockridge Branch, a north-south trending creek located approximately 1,000 feet northwest of the subject property. Both creeks are culverted underground in the areas nearest to the subject property.

LITHOLOGY

A previous SES report included geologic cross-sections through the area of historical investigations (SES, 2004c). The following summarizes site lithologic conditions.

The unsaturated zone (from ground surface to approximately 20 feet below ground surface [bgs]) consists of interbedded silty/sandy clays with silty/clayey sand, with occasional gravelly zones. In the sand zones, clay and/or silt content is high, and the sand is generally very fine- to fine-grained—such that the unit is, in essence, gradational between a clayey sand and a sandy clay. The most laterally-extensive unsaturated zone unit is a sandy clay encountered between ground surface and approximately 15 feet, locally pinching out and displaying lenticular form. Locally, this unit is interbedded with a sandy clay. The sediment types and geometry are suggestive of channel deposits, which is a common depositional facies in this area.

Depth to groundwater in all onsite April 2004 boreholes was approximately 20 to 21 feet bgs, predominantly in a saturated, loose, clayey sand. The saturated portion of this clayey sand constitutes the bottom of the unit; the saturated zone is approximately 0.5 to 2.5 feet thick, underlain in all boreholes by a cohesive, non-water-bearing clay. The top of this clay was consistently at a depth between approximately 21 and 23 feet. Of the 12 boreholes, 9 were

advanced at least 1.5 feet into this clay before terminating (and not encountering visible moisture or sand). One of the boreholes was advanced deeper, documenting a thickness of at least 4.5 feet. The lithologic data (supported by soil sample analytical data) strongly suggest that this clay unit inhibits downward migration of groundwater contamination.

The site lithology is consistent with that documented at the adjacent Shell service station site. Specifically, those boreholes have documented the thin upper, water-bearing zone underlain by the likely non-water-bearing clay unit. In three of the four Shell well boreholes, that clay unit was at least 2 feet thick. In one of the well boreholes, the clay unit was underlain by a saturated clayey sand unit (from approximately 22 to 25.5 feet bgs, which was underlain by a non-water-bearing clay). There are insufficient data to conclude whether the second deepest saturated clayey sand is connected to the more shallow sitewide saturated zone. The subsequent (March 2004) Shell boreholes SB-1 and SB-2 (between the Shell wells and the subject property) all terminated at 20 feet bgs, which was too shallow to encounter the underlying clay unit.

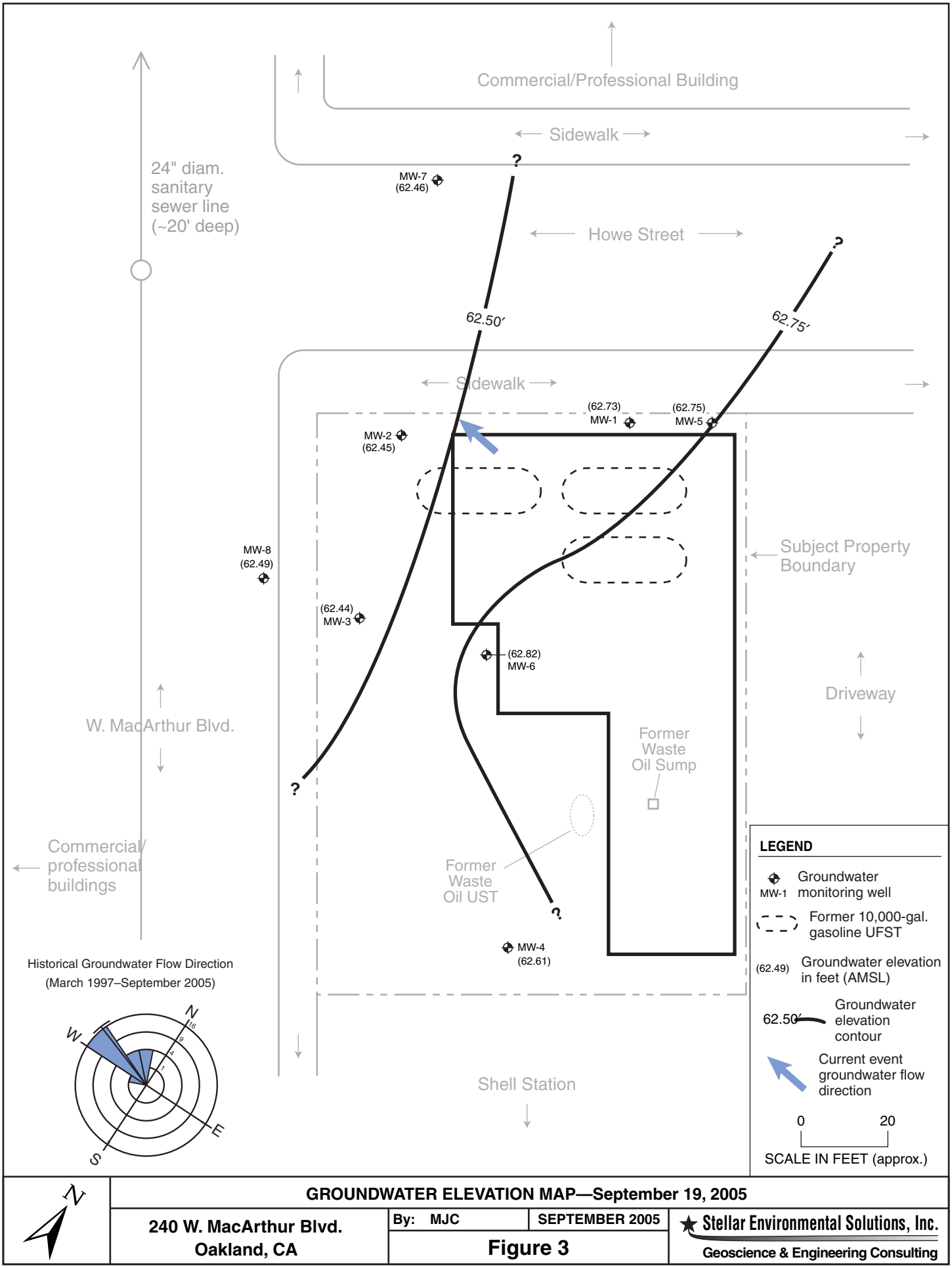
GROUNDWATER HYDROLOGY

The number and positioning of the existing eight site monitoring wells is currently adequate to evaluate the general groundwater flow direction and gradient. Four of the wells (MW-1, MW-2, MW-3, and MW-4) are screened between approximately 25 and 15 feet bgs, and the other four (MW-5, MW-6, MW-7, and MW -8) are screened at a depth of 10 to 20 feet.

Following the September 26, 2003 well surveying, SES evaluated groundwater flow direction of events (from October 2001 to March 2003), finding groundwater flow to be generally westward, with a slight northern component in some events. Figure 3 is a groundwater elevation map that shows elevations and contours from the current (September 2005) groundwater monitoring event. Groundwater flow direction in this event was generally to the west, although the data suggest local variations. A generally westward (with a slight southern component) groundwater flow direction has also been measured at the adjacent Shell-branded service station (Cambria Environmental Technology, 2004). Subject property groundwater gradient in the current event was relatively flat, at approximately 0.005 feet/foot. Historical groundwater gradient has varied between approximately 0.002 feet/foot and 0.008 feet/foot, averaging approximately 0.005 feet/foot.

Figure 3 includes a rose diagram that shows historical groundwater flow direction measured at the site. The rose diagram is a histogram that has been wrapped around a circle and has the following characteristics:

- Each wedge represents a 15-degree arc of groundwater flow direction.



GROUNDWATER ELEVATION MAP—September 19, 2005

240 W. MacArthur Blvd. Oakland, CA	By: MJC	SEPTEMBER 2005	Stellar Environmental Solutions, Inc. Geoscience & Engineering Consulting
	Figure 3		

2003-43-117

- The length of each wedge (circle radius) represents the number of sampling events with data falling within the 15-degree arc.
- The bold black line from the center of the circle to the outer edge is the mean groundwater flow direction.
- The arcs extending to either side of the mean groundwater flow direction line represent the 95-degree confidence interval of the data.

Historical equilibrated water levels (in wells) have been measured at depths of approximately 13 to 16 feet (slightly higher than first occurrence of groundwater encountered during drilling), indicating that groundwater occurs under slightly confining conditions. The range of water level elevations has varied by approximately 3 feet, and shows a strong seasonal variation, with highest elevations during the rainy winter-spring seasons and lowest elevations during the dry summer-fall seasons.

3.0 SEPTEMBER 2005 GROUNDWATER MONITORING AND SAMPLING

This section presents the groundwater sampling and analytical methods for the current event (Third Quarter 2005), conducted on September 19, 2005. Table 1 summarizes monitoring well construction and groundwater monitoring data. Groundwater analytical results are presented and discussed in Section 5.0. Monitoring and sampling protocols were in accordance with the SES technical workplan (SES, 2003) submitted to Alameda County Health, and subsequent technical revision requested by Alameda County Health. The groundwater sampling event involved the collection of one set of "post-purge" samples from all wells, in accordance with recent revisions to the quarterly monitoring program approved by Alameda County Health. Specific activities for this event included:

- Measuring static water levels and field measurement of "pre-purge" groundwater samples for hydrogeochemical parameters (temperature, pH, electrical conductivity, turbidity, and dissolved oxygen) in the eight site wells; and
- Collecting "post-purge" groundwater samples from the eight onsite wells for field measurement of the aforementioned hydrogeochemical parameters, and for offsite laboratory analyses for contaminants of concern.

The locations of all site monitoring wells are shown on Figure 2. Well construction information and water level data are summarized in Table 1. All site wells are 2-inch-diameter PVC, although the borehole geologic logs for MW-1 through MW-4 completed by the previous consultant mistakenly indicated that they are 4-inch-diameter. Appendix A contains the groundwater monitoring field records for the current event.

Groundwater monitoring well water level measurements, sampling, and field analyses were conducted by Blaine Tech Services (San Jose, California) under the supervision of SES personnel. To minimize the potential for cross-contamination, wells were purged and sampled in order of increasing contamination (based on the previous quarter analytical results).

As the first monitoring task, static water levels were measured in the eight site wells using an electric water level indicator. Grab-groundwater samples were then collected from each well (using a new disposable bailer) and field-analyzed for aquifer stability parameters—including temperature, pH, electrical conductivity, turbidity, and dissolved oxygen.

Table 1
Groundwater Monitoring Well Construction and Groundwater Elevation Data
240 W. MacArthur Boulevard, Oakland, California

Well	Well Depth (feet bgs)	Well Screened Interval		Groundwater Level Depth [(a)] September 19, 2005	Groundwater Elevation [(b)] September 19, 2005
		Depth (feet)	Elevation (feet)		
MW-1	25	19.5 to 24.5	54.5 to 49.5	16.42	62.73
MW-2	25	14.5 to 24.5	64.2 to 54.2	16.00	62.45
MW-3	25	14.5 to 24.5	63.4 to 53.4	15.14	62.44
MW-4	25	14.5 to 24.5	63.6 to 53.6	15.13	62.61
MW-5	20	9 to 19	70.6 to 60.6	16.61	62.75
MW-6	20	9 to 19	69.7 to 59.7	15.61	62.82
MW-7	20	9 to 19	69.6 to 59.6	15.81	62.46
MW-8	20	9 to 19	67.7 to 57.7	13.90	62.49

Notes:

[(a)] Pre-purge measurement, feet below top of well casing.

[(b)] Pre-purge measurement, feet above mean sea level.

Each well was then purged (by hand bailing with a new disposable bailer) of three wetted casing volumes, and aquifer stability parameters (pH, temperature, electrical conductivity, and turbidity) were measured between each purging. When measurements indicated that representative formation water was entering the well, a groundwater sample set was collected from each well with the purging bailer. These samples were field-measured for pH, temperature, electrical conductivity, turbidity, and dissolved oxygen. Samples were then transferred to appropriate sampling containers (40-ml VOA vials with hydrochloric acid preservative, and 1-liter amber glass jars), labeled, and placed in coolers with "blue ice." All groundwater samples were managed under chain-of-custody procedures from the time of sample collection until samples were received in the laboratory.

Approximately 30 gallons of wastewater (purge water and equipment decontamination rinseate) was containerized in a labeled, 55-gallon steel drum that will be temporarily stored onsite. This non-hazardous water will continue to be accumulated onsite until it is cost-effective to coordinate its disposal, at which time it will be profiled and disposed of at a permitted wastewater treatment facility.

4.0 REGULATORY CONSIDERATIONS, ANALYTICAL RESULTS AND FINDINGS

This section presents analytical results of the most recent monitoring event, preceded by a summary of relevant regulatory considerations.

REGULATORY CONSIDERATIONS

Environmental Screening Levels

There are no published cleanup goals for detected site contaminants in groundwater. The Water Board has published "Environmental Screening Levels" (ESLs), which are screening-level concentrations for soil and groundwater that incorporate both environmental and human health risk considerations, and are used as a preliminary guide in determining whether additional remediation and/or investigation are warranted. The ESLs are not cleanup criteria; rather, they are conservative screening-level criteria designed to be protective of both drinking water resources and aquatic environments in general. The groundwater ESLs are composed of one or more components, including ceiling value, human toxicity, indoor air impacts, and aquatic life protection. Exceedance of ESLs suggests that additional remediation and/or investigation may be warranted, such as monitoring plume stability to demonstrate no risk to sensitive receptors in the case of sites where drinking water is not threatened.

The City of Oakland, via its Urban Land Redevelopment (URL) Program, utilizes a similar ESL approach in evaluating whether active remediation is necessary at sites proposed for redevelopment. This program is not currently applicable to the site, as no redevelopment is proposed.

For all site contaminants with published drinking water standards—benzene, toluene, ethylbenzene, and xylenes (BTEX); and methyl *tertiary*-butyl ether (MTBE)—the drinking water standards are equal to or greater than the published ESLs.

Sensitive Receptors

Risk evaluation commonly includes the identification of sensitive receptors, including vicinity groundwater supply wells. As discussed in a previous report (SES, 2004c), the California Department of Water Resources identified only one groundwater supply well within 1,500 feet of

the site. Based on its distance and upgradient location relative to the site, there is no reasonable potential for this well to intercept shallow groundwater emanating from the subject property.

As specified in the Water Board's San Francisco Bay Region Water Quality Control Plan, all groundwaters are considered potential sources of drinking water unless otherwise approved by the Water Board, and are assumed to ultimately discharge to a surface water body and potentially impact aquatic organisms. In the case of groundwater contamination, ESLs are published for two scenarios: groundwater *is* a source of drinking water, and groundwater *is not* a source of drinking water. Qualifying for the higher ESLs (applicable to groundwater *is not* a source of drinking water) requires meeting one of the following two criteria:

1. The Water Board has completed the "East Bay Plain Groundwater Basin Beneficial Use Evaluation Report" (Water Board, 1999) that delineates three types of areas with regard to beneficial uses of groundwater: Zone A (significant drinking water resource), Zone B (groundwater unlikely to be used as drinking water resource), and Zone C (shallow groundwater proposed for designation as Municipal Supply Beneficial Use). The subject site falls within Zone A.
2. A site-specific exemption can be obtained from the Water Board. Such an exemption has not been obtained for this site.

As discussed below, multiple groundwater contaminants have been detected in excess of ESLs, for both groundwater beneficial scenarios (groundwater *is* versus *is not* a potential drinking water resource). These data indicate that continued site characterization is warranted until it can be demonstrated that site-sourced contamination poses no unacceptable risk to sensitive receptors. Our subsequent discussion of groundwater contamination is in the context of the ESL criteria for sites where groundwater *is* a potential drinking water resource.

GROUNDWATER SAMPLE ANALYTICAL METHODS

Groundwater samples were analyzed in accordance with the methods proposed in the SES technical workplan. Analytical methods included:

- Total volatile hydrocarbons – gasoline range (TVHg), by EPA Method 8015B (all wells);
- BTEX and MTBE, by EPA Method 8260B;
- The lead scavengers 1,2-dichloroethane (EDC) and 1,2-dibromoethane (EDB), by EPA Method 8260B (all wells except MW-4 and MW-7 which historically have had little or no site-sourced contamination);
- Total extractable hydrocarbons – diesel range (TEHd), by EPA Method 8015M (all wells except MW-4 and MW-7, which historically have never detected diesel); and
- Fuel oxygenates, by EPA Method 8260B.

Groundwater samples were analyzed in accordance with the methods proposed in the SES technical workplan, with one exception. Due to an error in the laboratory, groundwater samples in the current event were prepared using a silica gel cleanup, prior to analysis (all previous well samples have not undergone this preparation). In general, this preparation removes non-petroleum hydrocarbons (i.e. of organic origin). The analytical results for the current event indicate no significant differences from historical analytical results.

GROUNDWATER SAMPLE RESULTS

Tables 2 and 3 summarize the contaminant analytical results of the current monitoring event. Appendix B contains the certified analytical laboratory report and chain-of-custody record. Appendix C contains historical site groundwater monitoring well analytical data.

Gasoline and Diesel

Figure 4 shows gasoline isoconcentration contours for the recent event. Gasoline was detected in six of the eight wells (all except MW-4 or MW-7). Detected concentrations ranged from 520 micrograms per liter (µg/L) (in well MW-6) to 23,000 µg/L (in well MW-1). All of the gasoline concentrations exceeded the 100-µg/L ESL criterion. The gasoline plume extends to the south along the Howe Street side of the property, and to the east (toward well MW-4). To the south, the plume extends somewhat offsite into W. MacArthur Boulevard. Wells MW-1 and MW-5, at the northern corner of the site (near the original source area), had the highest gasoline concentration, as they have historically. The gasoline plume also extends offsite to the north (beneath Howe Street).

Figure 5 shows diesel isoconcentration contours for the recent event. Diesel was detected in all six of the wells analyzed for diesel, but is of secondary concern relative to gasoline, with concentrations historically at significantly lower levels than gasoline. Diesel concentrations ranged from 200 µg/L (in well MW-6) to 3,600 µg/L (in well MW-5), with all concentrations exceeding the 100-µg/L ESL criterion. The diesel plume footprint is similar to that of the gasoline plume. Diesel is present offsite under Howe Street (to the north) and under W. MacArthur Boulevard (to the west).

Benzene, Toluene, Ethylbenzene, and Total Xylenes

Figure 6 shows benzene isoconcentration contours for the recent event. Benzene was detected in five of the six wells for which benzene was analyzed, at concentrations ranging from 13 µg/L (in MW-6) to 2,100 µg/L (in MW-1). Maximum benzene concentrations were detected in source area wells MW-1 and MW-5, as historically has been the case. The lateral extent of the benzene

Table 2
Groundwater Sample Analytical Results – September 19, 2005
Hydrocarbons, BTEX, and MTBE [(a)]
240 W. MacArthur Boulevard, Oakland, California

Well	TVHg	TEHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1	23,000	2,500	2,100	100	200	880	*< 2.5*
MW-2	1,400	210	30	1.3	1.9	2.8	58
MW-3	5,000	950	60	3.1	12	25.8	59
MW-4	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-5	15,000	3,600	810	210	300	1,300	*< 1.3*
MW-6	680	200	13	0.9	6.6	13.0	*< 0.5*
MW-7	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-8	520	*< 50*	*< 0.5*	*< 0.5*	*< 0.5*	*< 1.0*	65
Environmental Screening Levels [(b)]							
	NLP	NLP	1.0	40	30	20	5.0
Drinking Water Standards [(c)]							
	100	100	1.0 [(d)]	40	30	13	5.0

Notes:

[(a)] All concentrations in µg/L, equivalent to parts per billion (ppb).

[(b)] For commercial/industrial sites where a known or potential drinking water resource is threatened.

[(c)] Drinking water standards are State of California Secondary Maximum Contaminant Levels – Proposed, unless specified otherwise.

[(d)] State of California Primary Maximum Contaminant Levels.

MTBE = methyl *tertiary*-butyl ether
TEHd = total extractable hydrocarbons - diesel range
TVHg = total volatile hydrocarbons - gasoline range

NA = Not analyzed for this contaminant.
NLP = No level published.

plume was constrained onsite in three directions in the current event; however, it extends under Howe Street to the north (up to approximately 100 µg/L). The benzene plume configuration is generally the same as for gasoline and diesel.

Toluene, ethylbenzene, and xylenes were detected in generally the same wells in which benzene was detected, and contaminant concentrations exceeded respective ESL criteria in several of the wells.

Table 3
Groundwater Sample Analytical Results – September 19, 2005
Lead Scavengers and Fuel Oxygenates [(a)]
240 W. MacArthur Boulevard, Oakland, California

Well	EDC	DIPE	TBA
MW-1	**6.5**	*< 2.5*	**240**
MW-2	**0.6**	**0.7**	**130**
MW-3	**1.5**	**0.9**	**94**
MW-5	**7.7**	*< 1.3*	**87**
MW-6	**15**	**0.7**	**43**
MW-8	*< 0.5*	**1.4**	**120**
Drinking Water Standards [(b)]	NLP	NLP	NLP
ESLs [(c)]	0.5	NLP	12

Notes:

[(a)] All concentrations in µg/L, equivalent to parts per billion (ppb).
[(b)] Drinking water standards are State of California Secondary Maximum Contaminant Levels – Proposed, unless specified otherwise.
[(c)] For commercial/industrial sites where known/potential drinking water resource is threatened.

DIPE = isopropyl ether.
EDC = ethylene dichloride (1,2-dichloroethane).
TBA = *tertiary*-butyl alcohol

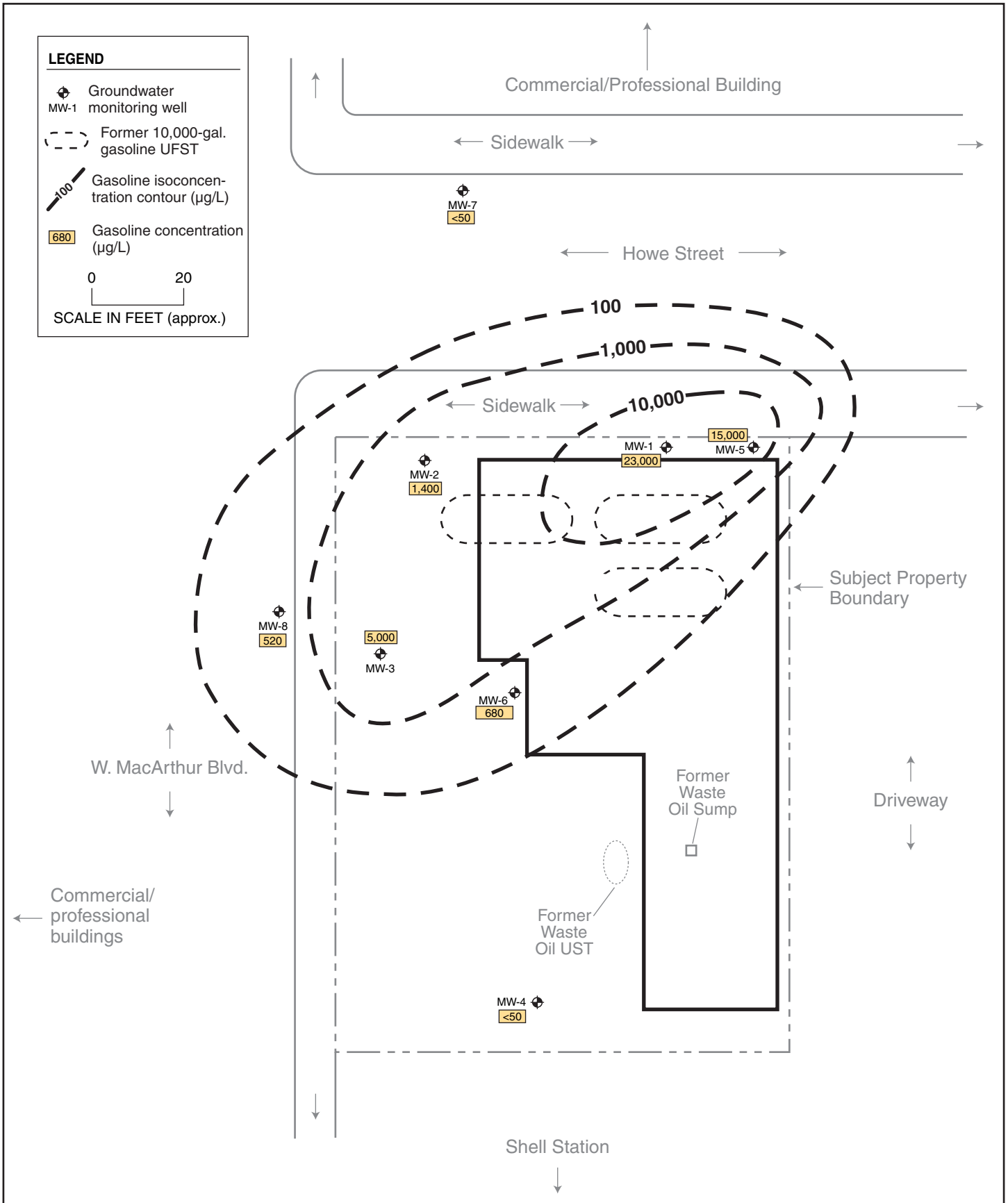
NLP = No level published.

Table includes only detected fuel oxygenates. Contaminants analyzed for and not detected include EDB, ETBE, and TAME.

Methyl *tertiary*-Butyl Ether

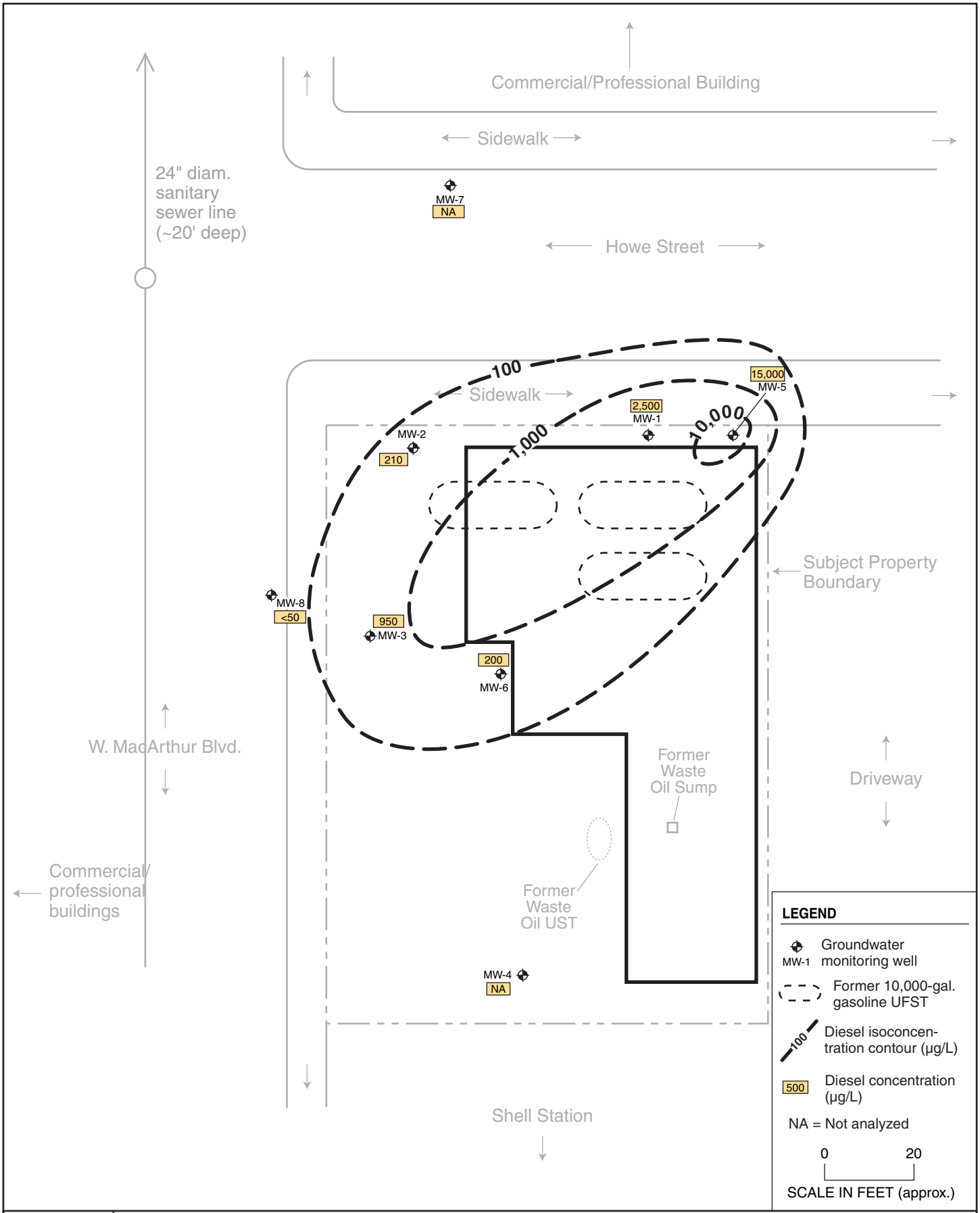
Figure 7 shows MTBE isoconcentration contours for the recent event. MTBE was detected in three of the six site wells for which MTBE was analyzed, at concentrations ranging from 58 µg/L (in MW-2) to 65 µg/L (in MW-8). The center of mass of the MTBE plume has migrated downgradient from the source area to the southern side of the property (adjacent to W. MacArthur Boulevard), with no MTBE present in source area wells MW-1 and MW-5.

The lateral extent of the MTBE plume was constrained onsite in three directions in the current event; however, it extends to the west underneath W. MacArthur Boulevard. As discussed in previous reports (SES, 2004c), MTBE appears to be migrating onto the subject property from the adjacent (to the east) Shell-branded service station. This contamination, however, is unrelated to the separate site-sourced MTBE contamination.



GASOLINE ISOCONCENTRATION CONTOURS (SEPTEMBER 2005)		
240 W. MacArthur Blvd. Oakland, CA	By: MJC OCTOBER 2005	Stellar Environmental Solutions, Inc. Geoscience & Engineering Consulting
	Figure 4	

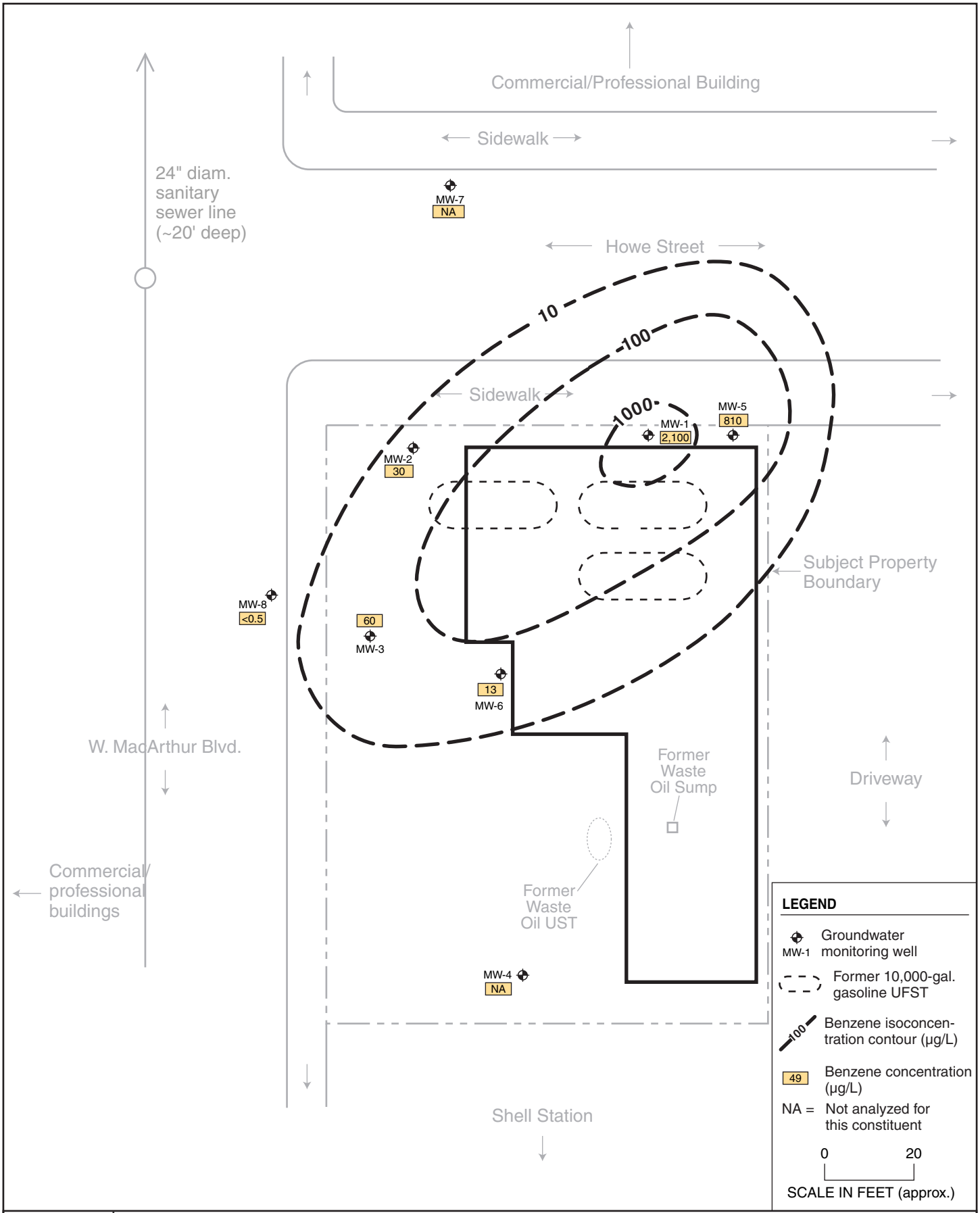
2003-43-119



DIESEL ISOCONCENTRATION CONTOURS (SEPTEMBER 2005)

240 W. MacArthur Blvd. Oakland, CA	By: MJC	OCTOBER 2005	Stellar Environmental Solutions, Inc. Geoscience & Engineering Consulting
	Figure 5		

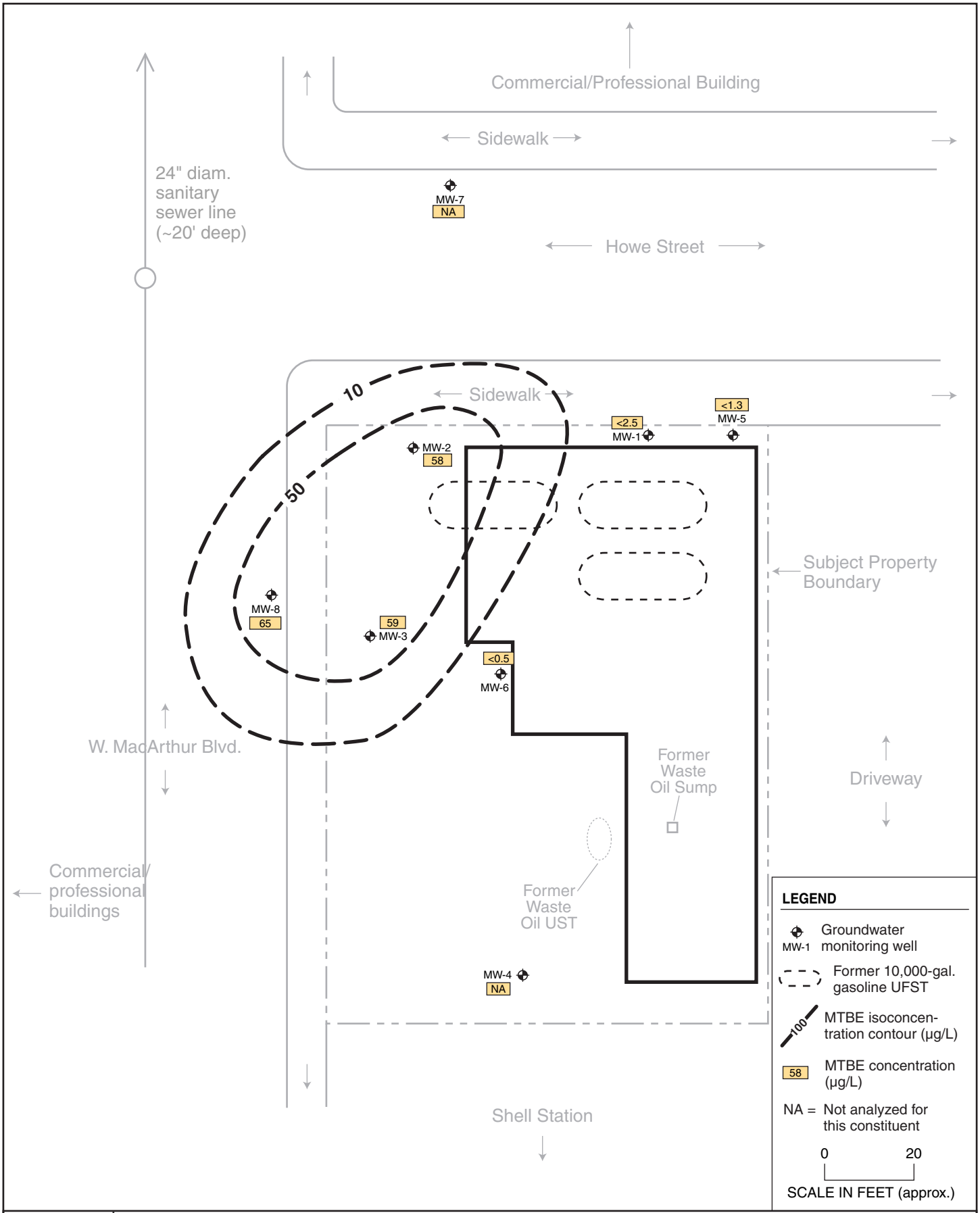
2003-43-120



BENZENE ISOCONCENTRATION CONTOURS (SEPTEMBER 2005)

240 W. MacArthur Blvd. Oakland, CA	By: MJC	OCTOBER 2005	Stellar Environmental Solutions, Inc. Geoscience & Engineering Consulting
	Figure 6		

2003-43-121



MTBE ISOCONCENTRATION CONTOURS (SEPTEMBER 2005)

240 W. MacArthur Blvd. Oakland, CA	By: MJC	OCTOBER 2005	Stellar Environmental Solutions, Inc. Geoscience & Engineering Consulting
	Figure 7		

2003-43-118

Lead Scavengers and Fuel Oxygenates

The lead scavenger EDC was detected in five of the six site wells for which lead scavengers were analyzed, with a maximum concentration of 15 µg/L in MW-6. The lead scavenger EDB was not detected in any of the six wells.

Two fuel oxygenates were detected in the current event. DIPE was detected in four wells at concentrations between 0.7 µg/L and 1.4 µg/L. TBA was detected in all six wells at concentrations between 43 µg/L and 240 µg/L. No other fuel oxygenates were detected.

Summary of Groundwater Contamination

Maximum concentrations of gasoline and diesel were detected in wells MW-5 and MW-1, located in the northeastern corner of the property (near the former UFSTs). Maximum concentrations of MTBE were detected in downgradient wells (adjacent to W. MacArthur Boulevard), indicating that the center of mass of MTBE has migrated downgradient. Groundwater contamination extends offsite to the south and west (beneath Howe Street and W. MacArthur Boulevard).

QUALITY CONTROL SAMPLE ANALYTICAL RESULTS

Laboratory QC samples (e.g., method blanks, matrix spikes, surrogate spikes) were analyzed by the laboratory in accordance with requirements of each analytical method. All laboratory QC sample results and sample holding times were within the acceptance limits of the methods (Appendix C).

5.0 SUMMARY, CONCLUSIONS, AND PROPOSED ACTIONS

SUMMARY AND CONCLUSIONS

- The site has undergone site investigations and remediation since 1991 (SES has been involved since August 2003) to address soil and groundwater contamination resulting from leaking UFSTs that were reportedly removed. Alameda County Health is the lead regulatory agency.
- A total of 28 groundwater monitoring/sampling events have been conducted in the eight site wells between August 1997 and the current event.
- Additional site characterization (exploratory borehole drilling and sampling) in 2004 provided additional data on the extent and magnitude of residual soil and groundwater contamination.
- Groundwater at the site appears to be slightly confined, with a flow direction ranging between northwest and west, with a relatively flat hydraulic gradient averaging approximately 0.005 ft/ft. The groundwater flow direction and gradient were within the historical range.
- The primary site chemicals of concern, with regard to concentrations and risk issues, are gasoline, benzene, and MTBE. Diesel, aromatic hydrocarbons, lead scavengers, and fuel oxygenates are present at lesser concentrations and over a smaller area.
- As stipulated by Alameda County Health, analysis for lead scavengers will continue to be conducted in wells MW-1, MW-5, and MW-6. Fuel oxygenates were detected in those wells, and in MW-2, MW-3, and MW-8. Because lead scavengers and fuel oxygenates are analyzed by the same method at no additional cost, the responsible party has elected to continue analysis for lead scavengers and fuel oxygenates lead scavengers in all wells except MW-4 and MW-7.
- The greatest concentrations of gasoline, diesel, and benzene in groundwater are located in the northern corner of the site (near the source area). Maximum groundwater contamination by MTBE was detected in the downgradient portion of the property, indicating that the center of mass of these contaminants has migrated downgradient. Groundwater contamination above ESL criteria extends offsite (likely no more than 25 feet) beneath Howe Street and W. MacArthur Boulevard.

- The groundwater plume geometry shown in the Q3 2005 monitoring event with a southwest migrational pattern is typical of what has been observed in previous monitoring events. Seasonal effects do not appear to change the plume migration direction.
- A previous water well survey identified no vicinity water wells with the potential to intercept site-sourced groundwater contamination.
- Potential preferential pathways identified include deep sanitary sewer lines beneath Howe Street and W. MacArthur Boulevard (adjacent to the subject property). Based on the detection of gasoline and MTBE in well MW-7 (beyond the Howe Street deep utilities), it appears unlikely that the Howe Street deep utilities are acting as a preferential pathway for site-sourced groundwater contamination. The influence of deep utilities beneath W. MacArthur Boulevard is not known.
- The adjacent Shell service station is contributing minor MTBE groundwater contamination to the eastern corner of the subject property. This contamination is unrelated to the separate, site-sourced MTBE groundwater contamination in the northern and western portions of the subject property.
- Sufficient site characterization has been conducted to evaluate the risks associated with residual soil contamination, and to evaluate corrective action options. The data indicate that, if corrective action is not conducted, residual site contamination will remain at elevated levels for at least several years and likely longer.
- In December 2004, the property owner submitted to Alameda County Health a workplan for interim remedial action (focusing on soil vapor extraction to reduce source area contaminant mass). Alameda County Health has not yet responded to that workplan.

PROPOSED ACTIONS

The property owner proposes to implement the following action to address regulatory concerns:

- Implement the SES-recommended December 2004 Additional Site Characterization and Interim Remedial Action Workplan as soon as it is approved by Alameda County Health.
- Continue the program of quarterly groundwater sampling and reporting, with the objectives of obtaining site closure and continuing reimbursement requests under the State of California Petroleum UST Cleanup Fund.
- Continue the modified quarterly groundwater monitoring program to include analysis for fuel oxygenates and lead scavengers in all wells except MW-4 and MW-7.

- Continue to make required Electronic Data Format uploads to the Water Board's GeoTracker database, and upload an electronic copy of technical reports to ACDEH's "ftp" system.

6.0 REFERENCES AND BIBLIOGRAPHY

Advanced Environmental Concepts, Inc. (AEC), 2003a. 1st Quarter Groundwater Sampling Report (2003) – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. March 7.

AEC, 2003b. 2nd Quarter Groundwater Sampling Report (2003) – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. April 30.

AEC, 2002a. December 2001 Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. January 30.

AEC, 2002b. March 2002 Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. April 19.

AEC, 2002c. 2nd Quarter Groundwater Sampling Report (2002) – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. July 17.

AEC, 2002d. 4th Quarter Groundwater Sampling Report (2002) – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. November 11.

AEC, 2001a. December 2000 Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. January.

AEC, 2001b. Additional Soil and Groundwater Assessment – 240 W. MacArthur Boulevard, Oakland, County of Alameda, California. March.

AEC, 2001c. May 2001 Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. May 27.

AEC, 2001d. July 2001 Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. August 31.

AEC, 2001e. Summary "Hi-Vac" Workplan – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. September 11.

AEC, 2001f. October 2001 Quarterly Groundwater Sampling and Summary "Hi-Vac" Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. December 15.

AEC, 2000a. Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. August 11.

AEC, 2000b. Additional Groundwater Assessment Workplan for Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, County of Alameda, California. October.

AEC, 1999. Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. January 22.

AEC, 1998a. Second Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. April 2.

AEC, 1998b. Request for Site Closure – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. June 29.

AEC, 1998c. Third Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. August 2.

AEC, 1998d. Fourth Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. November 6.

AEC, 1997a. Subsurface Soil and Groundwater Investigation Workplan for Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. June.

AEC, 1997b. Continuing Soil and Groundwater Assessment for Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. August.

AEC, 1997c. First Quarterly Groundwater Sampling Report – Former Vogue Tyres Facility – 240 W. MacArthur Boulevard, Oakland, California. December 21.

All Environmental, Inc., 1997a. Underground Storage Tank Removal and Excavation, Transport and Disposal of Contaminated Soil Report – 240 W. MacArthur Boulevard, Oakland, California. January 3.

All Environmental, Inc., 1997b. Phase II Subsurface Investigation Report – 240 W. MacArthur Boulevard, Oakland, California. February 14.

All Environmental, Inc., 1997c. Soil and Groundwater Investigation Workplan – 240 W. MacArthur Boulevard, Oakland, California. April 15.

Cambria Environmental Technology, Inc., 2004. Second Quarter 2004 Monitoring Report, Shell-branded Service Station, 230 W. MacArthur Boulevard, Oakland, California. July 29.

Guidici, 2003. Supervisor, City of Oakland Public Works Department – Sewer Maintenance. Personal communication to Joe Dinan of SES. September 8.

Mittelhauser Corporation, 1991a. Magnetic Survey for Underground Utilities and Recommendations at 240 W. MacArthur Boulevard, Oakland, California. February 21.

Mittelhauser Corporation, 1991b. Sump Removal and Waste Oil Cleanup at 240 W. MacArthur Boulevard, Oakland, California. April 9.

Regional Water Quality Control Board (Water Board), 2005. Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater. February.

Stellar Environmental Solutions, Inc. (SES), 2005a. Fourth Quarter 2004 Groundwater Monitoring and Annual Summary Report, 240 W. MacArthur Boulevard, Oakland, California. January 18.

SES, 2005b. First Quarter 2005 Groundwater Monitoring Report, 240 W. MacArthur Boulevard, Oakland, California. March 31.

SES, 2005c. Second Quarter 2005 Groundwater Monitoring Report, 240 W. MacArthur Boulevard, Oakland, California. July 8.

SES, 2004a. Fourth Quarter 2003 Groundwater Monitoring Report, 240 W. MacArthur Boulevard, Oakland, California. January 12.

SES, 2004b. First Quarter 2004 Groundwater Monitoring Report, 240 W. MacArthur Boulevard, Oakland, California. April 12.

SES, 2004c. Soil and Groundwater Investigation Report, 240 W. MacArthur Boulevard, Oakland, California. June 8.

SES, 2004d. Second Quarter 2004 Groundwater Monitoring Report, 240 W. MacArthur Boulevard, Oakland, California. July 12.

SES, 2004e. Third Quarter 2004 Groundwater Monitoring Report, 240 W. MacArthur Boulevard, Oakland, California. October 11.

SES, 2004f. Workplan for Additional Site Characterization and Interim Remedial Action, 240 W. MacArthur Boulevard, Oakland, California. December 27.

SES, 2003a. Workplan for Additional Site Characterization, 240 W. MacArthur Boulevard, Oakland, California. August 20.

SES, 2003b. Third Quarter 2003 Groundwater Monitoring Report, 240 W. MacArthur Boulevard, Oakland, California. September 5.

SES, 2003c. Amended Workplan for Additional Site Characterization, 240 W. MacArthur Boulevard, Oakland, California. December 10.

7.0 LIMITATIONS

This report has been prepared for the exclusive use of the current property owners (Mr. and Mrs. Glen Poy-Wing, d.b.a. Oakland Auto Works) their representatives, and the regulators. 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 the review of previous investigators' findings at the site, as well as site activities conducted by SES since August 2003. This report provides neither a certification nor guarantee that the property is free of hazardous substance contamination. This report has been prepared in accordance with generally accepted methodologies and standards of practice of the area. 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 investigation and remediation completed.

APPENDIX A

Current Event Groundwater Monitoring Field Records

WELL GAUGING DATA

Project # 050919-MDB Date 9/19/05 Client Stellar Envr.

Site 240 W. MacArthur Blvd., Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2	odor				16.42	24.37		
MW-2	2					16.00	24.33		
MW-3	2					15.14	24.27		
MW-4	2					15.13	24.09		
MW-5	2					16.61	20.05		
MW-6	2					15.61	20.15		
MW-7	2					15.81	19.96		
MW-8	2					13.90	19.74	↓	

WELLHEAD INSPECTION CHECKLIST

Date 9/19/05 Client Stellar Envr.

Site Address 240 W. Macarthur Blvd., Oakland

Job Number 050919-MD3 Technician MD

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	✓							
MW-2	✓							
MW-3	✓							
MW-4	✓							
MW-5	✓							
MW-6	✓							
MW-7	✓							
MW-8	✓							

NOTES:

WELL MONITORING DATA SHEET

Project #: 050919-MD3	Client: Stellar @ Oakland Auto Works
Sampler: MD	Date: 9/19/05
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.37	Depth to Water (DTW): 16.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.01	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

1 Case Volume	Specified Volumes	Calculated Volume
1.3 (Gals.) X	3	= 3.9 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	SPH Detected w/Bailer cont'd purge					
1416					1.3	SPH still present
1419	69.2	6.6	1210	71000	2.6	Sheen, odor
1422	68.4	6.6	1165	70000	3.9	" "
				Fe²⁺ Post 6	3.1	

Did well dewater? Yes No Gallons actually evacuated: 3.9

Sampling Date: 9/19/05 Sampling Time: 1430 Depth to Water: 16.91

Sample I.D.: MW-1 Laboratory: Kiff CalScience Other CFT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See Sheet

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	Not Available	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELL MONITORING DATA SHEET

Project #: 050919-MD3	Client: StaMarco Oakland oilworks
Sampler: MM	Date: 9/19/05
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD): 24.33	Depth to Water (DTW): 16.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.67	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: _____

1 Case Volume	Specified Volumes	Calculated Volume
1.3 (Gals.) X	3	= 3.9 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1323	70.8	6.8	634	683	1.3	Cloudy
1326	69.5	6.7	640	7000	2.6	"
1329	69.0	6.8	637	7000	3.9	"
				Fe²⁺ post 8	1.8	

Did well dewater? Yes No Gallons actually evacuated: 3.9

Sampling Date: 9/19/05 Sampling Time: 1335 Depth to Water: 17.67

Sample I.D.: MW-2 Laboratory: Kiff CalScience Other CFT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See Sop

Duplicate (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

Pre-purge:	mg/L	Post-purge:	0.1 mg/L
Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 050919-M03	Client: Stellar Oakland Auto Works
Sampler: MD	Date: 9/19/05
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 24.27	Depth to Water (DTW): 15.14
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.97	

Purge Method: (Bailer) / (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Dedicated Tubing / Other: _____

1.5 (Gals.) X	3	=	4.5 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1346	70.9	6.7	735	>1000	1.5	Cloudy, odor
1349	70.6	6.7	740	>1000	3	↓
1351	70.6	6.8	716	>1000	4.5	↓
				Fe 2+ post 8	1.6	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 9/19/05 Sampling Time: 1400 Depth to Water: 16.03

Sample I.D.: MW-3 Laboratory: Kiff CalScience Other CHT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See Page

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.1	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELL MONITORING DATA SHEET

Project #: 050919-M03	Client: Stellar @ 2900 MacArthur, Oakland
Sampler: MD	Date: 9/19/05
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.09	Depth to Water (DTW): 15.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.92	

Purge Method: Bailer; ~~Disposable Bailer~~; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; ~~Disposable Bailer~~; Extraction Port; Dedicated Tubing; Other:_____

1.4 (Gals.) X	3 =	4.2 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1145	69.6	6.4	535	>1000	1.4	cloudy
1148	69.1	6.4	549	>1000	2.8	"
1150	68.8	6.3	538	>1000	4.2	"
				FP	Post: 0.2	

Did well dewater? Yes (No) Gallons actually evacuated: 4.2

Sampling Date: 9/19/05 Sampling Time: 1155 Depth to Water: 16.92

Sample I.D.: MW-4 Laboratory: Kiff CalScience Other CFT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See Scope

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:		mg/L	(Post-purge):	0.2 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 050919-MD3	Client: Stellar @ Oakland Auto Works
Sampler: MD	Date: 9/19/05
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 20.05	Depth to Water (DTW): 16.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.30	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

1 Case Volume	Specified Volumes	Calculated Volume
06 (Gals.) X	3	= 1.8 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1432	68.2	6.7	917	>1000	.6	cloudy, odor
1435	67.3	6.7	903	>1000	1.2	√ √
1439	67.4	6.8	844	>1000	1.8	√ √
				Foot pole	1.8 gal	

Did well dewater? Yes (No) Gallons actually evacuated: 1.8

Sampling Date: 9/19/05 Sampling Time: 1445 Depth to Water: 17.30

Sample I.D.: MW-5 Laboratory: Kiff CalScience Other CFT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See Scope

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.4	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELL MONITORING DATA SHEET

Project #: 050919-MD3	Client: Stellar @ Oakland Auto Works
Sampler: MM	Date: 9/19/05
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): ~~20ft~~ 20.15	Depth to Water (DTW): 15.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.52	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

0.7 (Gals.) X 3 = 2.1 Gals.
1 Case Volume; Specified Volumes; Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1233	69.7	6.7	1008	213	0.7	Cloudy
1235	69.6	6.7	1019	71000	1.4	↓
1237	69.5	6.7	1020	71000	2.1	
				Fe²⁺ test:	1.1	

Did well dewater? Yes (No) Gallons actually evacuated: 2.1

Sampling Date: 9/19/05 Sampling Time: 1245 Depth to Water: 18.10 parking lot

Sample I.D.: MW-6 Laboratory: Kiff CalScience Other CTT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: Scalcoat

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.6	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELL MONITORING DATA SHEET

Project #: 050919-MD3	Client: Stellar @ Oakland Auto Works
Sampler: MW	Date: 9/19/05
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.96	Depth to Water (DTW): 15.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.64	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

0.7 (Gals.) X	3	= 2.1 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1211	69.8	6.7	748	>1000	0.7	cloudy
1213	69.6	6.7	766	1000	1.4	"
1215	69.4	6.7	760	>1000	2.1	"
				Fe^{2+} post: 0.8		

Did well dewater? Yes (No) Gallons actually evacuated: 2.1

Sampling Date: 9/19/05 Sampling Time: 1220 Depth to Water: 16.21

Sample I.D.: MW-7 Laboratory: Kiff CalScience Other CT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See Scope

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:		mg/L	(Post-purge):	2.0 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 050919-MW3	Client: Stellar Oakland Autoworks
Sampler: MB	Date: 9/19/05
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.74	Depth to Water (DTW): 13.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.07	

Purge Method: (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: (Disposable Bailer); Extraction Port; Dedicated Tubing; Other:____

0.9 (Gals.) X 3 = 2.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1259	69.8	6.9	458	>1000	.9	cloudy
1301	69.4	6.8	492	>1000	1.8	↓
1303	69.4	6.8	512	>1000	2.7	↓
				FP post:	0.0	

Did well dewater? Yes (No) Gallons actually evacuated: 2.7

Sampling Date: 9/19/05 Sampling Time: 1310 Depth to Water: 14.25

Sample I.D.: MW-8 Laboratory: Kiff CalScience Other CTT

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See Sheet

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	3.5	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

SPH or Purge Water Drum Log

Client: Stellar ENV.

Site Address: 240 W. MacArthur Blvd., Oakland

STATUS OF DRUM(S) UPON ARRIVAL						
Date	6/14/05	9/19/05				
Number of drum(s) empty:						
Number of drum(s) 1/4 full:	1	1				
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	4	4				
Total drum(s) on site:	5	5				
Are the drum(s) properly labeled?	Yes	X				
Drum ID & Contents:	H20	H20				
If any drum(s) are partially or totally filled, what is the first use date:						

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	6/14/05	9/19/05				
Number of drums empty:						
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:	1	~~1~~				
Number of drum(s) full:	4	~~4~~ 5				
Total drum(s) on site:	5	5				
Are the drum(s) properly labeled?	Yes	Y				
Drum ID & Contents:	H20	H20				

LOCATION OF DRUM(S)	
Describe location of drum(s):	Next to Dumpster

FINAL STATUS						
Number of new drum(s) left on site this event		8				
Date of inspection:	6/14/05	9/19/05				
Drum(s) labelled properly:	Yes	Y				
Logged by BTS Field Tech:	MF	MF				
Office reviewed by:	N	9/22/05				

APPENDIX B

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

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:

Stellar Environmental Solutions
2198 6th Street
Suite 201
Berkeley, CA 94710

Date: 30-SEP-05
Lab Job Number: 182018
Project ID: STANDARD
Location: Oakland Auto Works

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

182018

Chain of Custody Record

Lab job no. _____
Date 9/19/05
Page 1 of 1

Laboratory Curtis and Tompkins
Address 2323 Fifth St.
Oakland, CA

Project Owner Stellar Env. Solutions
Site Address 240 W. Macarthur Blvd.
Oakland, CA

Project Name Oakland Auto Works
Project Number 050919-MJ3

Method of Shipment Lab Courier
Shipment No. _____
Airbill No. _____
Cooler No. _____
Project Manager Bruce Rucker
Telephone No. (510) 644-3123
Fax No. (510) 644-3859
Samplers: (Signature)

Field Sample Number	Location/ Depth	Date	Time	Sample Type	Type/Size of Container	Preservation: Cooler	Preservation: Chemical	Filtered	No. of Containers	Analysis Required: TVH-G (8015M)	TEH-D (8015M)	BTEX, MTBE, EDB & EDC (8260B)	5 Oxygenates (8260B)	Remarks
1 MW-1		9/19/05	1430	W	VOA/Amber				5	X	X	X	X	
2 MW-2			1335		VOA				5	X	X	X	X	
3 MW-3			1400						5	X	X	X	X	
4 MW-4			1155						3	X			X	
5 MW-5			1445		Amber				5	X	X	X	X	
6 MW-6			1245						5	X	X	X	X	
7 MW-7			1220						3	X				
8 MW-8			1310		Amber				5	X	X	X	X	

Relinquished by	Date	Received by	Date	Relinquished by	Date	Received by	Date
Signature	9/19/05	Signature Sample Cust.	9/20/05	Signature	9/20	Signature	9/20/05
Printed John DeJoney	Time 1830	Printed M. JONES	Time 1448	Printed C. Lipford	Time 1448	Printed Aaron Grover	Time 1448
Company BTS		Company BTS		Company BTS		Company Curtis & Tompkins	

Turnaround Time: _____
Comments: _____

Relinquished by	Date	Received by	Date
Signature		Signature	
Printed	Time	Printed	Time
Company		Company	

2000-00-01

★ Stellar Environmental Solutions

2198 Sixth Street #201, Berkeley, CA 94710

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

CASE NARRATIVE

Laboratory number:	**182018**
Client:	**Stellar Environmental Solutions**
Location:	**Oakland Auto Works**
Request Date:	**09/20/05**
Samples Received:	**09/20/05**

This hardcopy data package contains sample and QC results for eight water samples, requested for the above referenced project on 09/20/05. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recoveries were observed for bromofluorobenzene (FID) and trifluorotoluene (FID) in MW-1 (lab # 182018-001), MW-2 (lab # 182018-002), and MW-6 (lab # 182018-006). No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
High surrogate recovery was observed for hexacosane in the BSD for batch 106120. All spike recoveries were within quality control criteria therefore, the data is not affected. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05
Batch#:	106001		

Field ID: MW-1 Diln Fac: 5.000
Type: SAMPLE Analyzed: 09/21/05
Lab ID: 182018-001

Analyte	Result	RL
Gasoline C7-C12	23,000	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	142 *	62-141
Bromofluorobenzene (FID)	185 *	78-134

Field ID: MW-2 Diln Fac: 1.000
Type: SAMPLE Analyzed: 09/22/05
Lab ID: 182018-002

Analyte	Result	RL
Gasoline C7-C12	1,400	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	167 *	62-141
Bromofluorobenzene (FID)	160 *	78-134

Field ID: MW-3 Diln Fac: 5.000
Type: SAMPLE Analyzed: 09/21/05
Lab ID: 182018-003

Analyte	Result	RL
Gasoline C7-C12	5,000	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	62-141
Bromofluorobenzene (FID)	131	78-134

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05
Batch#:	106001		

Field ID: MW-4 Diln Fac: 1.000
Type: SAMPLE Analyzed: 09/21/05
Lab ID: 182018-004

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	62-141
Bromofluorobenzene (FID)	113	78-134

Field ID: MW-5 Diln Fac: 5.000
Type: SAMPLE Analyzed: 09/22/05
Lab ID: 182018-005

Analyte	Result	RL
Gasoline C7-C12	15,000	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	62-141
Bromofluorobenzene (FID)	132	78-134

Field ID: MW-6 Diln Fac: 1.000
Type: SAMPLE Analyzed: 09/22/05
Lab ID: 182018-006

Analyte	Result	RL
Gasoline C7-C12	680	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	62-141
Bromofluorobenzene (FID)	141 *	78-134

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05
Batch#:	106001		

Field ID: MW-7 Diln Fac: 1.000
Type: SAMPLE Analyzed: 09/21/05
Lab ID: 182018-007

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	62-141
Bromofluorobenzene (FID)	110	78-134

Field ID: MW-8 Diln Fac: 1.000
Type: SAMPLE Analyzed: 09/21/05
Lab ID: 182018-008

Analyte	Result	RL
Gasoline C7-C12	520	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	133	62-141
Bromofluorobenzene (FID)	131	78-134

Type: BLANK Diln Fac: 1.000
Lab ID: QC309944 Analyzed: 09/21/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	62-141
Bromofluorobenzene (FID)	113	78-134

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC309946	Batch#:	106001
Matrix:	Water	Analyzed:	09/21/05
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,048	102	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	62-141
Bromofluorobenzene (FID)	120	78-134

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	MW-7	Batch#:	106001
MSS Lab ID:	182018-007	Sampled:	09/19/05
Matrix:	Water	Received:	09/20/05
Units:	ug/L	Analyzed:	09/21/05
Diln Fac:	1.000		

Type: MS Lab ID: QC309953

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	18.01	2,000	1,939	96	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	62-141
Bromofluorobenzene (FID)	120	78-134

Type: MSD Lab ID: QC309954

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,020	100	80-120	4	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	62-141
Bromofluorobenzene (FID)	121	78-134

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05
Diln Fac:	1.000	Prepared:	09/25/05
Batch#:	106120	Analyzed:	09/28/05

Field ID: MW-1 Lab ID: 182018-001
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	2,500 L Y	50

Surrogate	%REC	Limits
Hexacosane	119	60-135

Field ID: MW-2 Lab ID: 182018-002
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	210 L Y	50

Surrogate	%REC	Limits
Hexacosane	130	60-135

Field ID: MW-3 Lab ID: 182018-003
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	950 L Y	50

Surrogate	%REC	Limits
Hexacosane	126	60-135

Field ID: MW-5 Lab ID: 182018-005
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	3,600 L Y	50

Surrogate	%REC	Limits
Hexacosane	120	60-135

Field ID: MW-6 Lab ID: 182018-006
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	200 L Y	50

Surrogate	%REC	Limits
Hexacosane	109	60-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05
Diln Fac:	1.000	Prepared:	09/25/05
Batch#:	106120	Analyzed:	09/28/05

Field ID: MW-8 Lab ID: 182018-008
Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	107	60-135

Type: BLANK Cleanup Method: EPA 3630C
Lab ID: QC310411

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	100	60-135

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	106120
Units:	ug/L	Prepared:	09/25/05
Diln Fac:	1.000		

Type: BS Analyzed: 09/27/05
Lab ID: QC310412 Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,645	106	53-138

Surrogate	%REC	Limits
Hexacosane	120	60-135

Type: BSD Analyzed: 09/28/05
Lab ID: QC310413 Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	3,071	123	53-138	15	36

Surrogate	%REC	Limits
Hexacosane	142 *	60-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-1	Units:	ug/L
Lab ID:	182018-001	Sampled:	09/19/05
Matrix:	Water	Received:	09/20/05

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	240	50	5.000	106246	09/29/05
MTBE	ND	2.5	5.000	106246	09/29/05
Isopropyl Ether (DIPE)	ND	2.5	5.000	106246	09/29/05
Ethyl tert-Butyl Ether (ETBE)	ND	2.5	5.000	106246	09/29/05
1,2-Dichloroethane	6.5	2.5	5.000	106246	09/29/05
Benzene	2,100	17	33.33	106298	09/30/05
Methyl tert-Amyl Ether (TAME)	ND	2.5	5.000	106246	09/29/05
Toluene	100	2.5	5.000	106246	09/29/05
1,2-Dibromoethane	ND	2.5	5.000	106246	09/29/05
Ethylbenzene	200	2.5	5.000	106246	09/29/05
m,p-Xylenes	560	2.5	5.000	106246	09/29/05
o-Xylene	320	2.5	5.000	106246	09/29/05

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	100	80-121	5.000	106246	09/29/05
1,2-Dichloroethane-d4	99	80-125	5.000	106246	09/29/05
Toluene-d8	99	80-120	5.000	106246	09/29/05
Bromofluorobenzene	102	80-124	5.000	106246	09/29/05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	106344
Lab ID:	182018-002	Sampled:	09/19/05
Matrix:	Water	Received:	09/20/05
Units:	ug/L	Analyzed:	10/03/05
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	150	10
MTBE	64	0.5
Isopropyl Ether (DIPE)	0.8	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	0.6	0.5
Benzene	30	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	1.3	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	1.9	0.5
m,p-Xylenes	2.0	0.5
o-Xylene	0.8	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	106	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-3	Batch#:	106246
Lab ID:	182018-003	Sampled:	09/19/05
Matrix:	Water	Received:	09/20/05
Units:	ug/L	Analyzed:	09/30/05
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	94	10
MTBE	59	0.5
Isopropyl Ether (DIPE)	0.9	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	1.5	0.5
Benzene	60	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	3.1	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	12	0.5
m,p-Xylenes	20	0.5
o-Xylene	5.8	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-121
1,2-Dichloroethane-d4	102	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	105	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-5	Sampled:	09/19/05
Lab ID:	182018-005	Received:	09/20/05
Matrix:	Water	Analyzed:	09/29/05
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#
tert-Butyl Alcohol (TBA)	87	25	2.500	106246
MTBE	ND	1.3	2.500	106246
Isopropyl Ether (DIPE)	ND	1.3	2.500	106246
Ethyl tert-Butyl Ether (ETBE)	ND	1.3	2.500	106246
1,2-Dichloroethane	7.7	1.3	2.500	106246
Benzene	810	20	40.00	106215
Methyl tert-Amyl Ether (TAME)	ND	1.3	2.500	106246
Toluene	210	1.3	2.500	106246
1,2-Dibromoethane	ND	1.3	2.500	106246
Ethylbenzene	300	20	40.00	106215
m,p-Xylenes	810	20	40.00	106215
o-Xylene	490	20	40.00	106215

Surrogate	%REC	Limits	Diln Fac	Batch#
Dibromofluoromethane	93	80-121	2.500	106246
1,2-Dichloroethane-d4	93	80-125	2.500	106246
Toluene-d8	101	80-120	2.500	106246
Bromofluorobenzene	104	80-124	2.500	106246

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	106215
Lab ID:	182018-006	Sampled:	09/19/05
Matrix:	Water	Received:	09/20/05
Units:	ug/L	Analyzed:	09/29/05
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	43	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	0.7	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	15	0.5
Benzene	13	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	0.9	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	6.6	0.5
m,p-Xylenes	11	0.5
o-Xylene	2.0	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	97	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-8	Batch#:	106215
Lab ID:	182018-008	Sampled:	09/19/05
Matrix:	Water	Received:	09/20/05
Units:	ug/L	Analyzed:	09/29/05
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	120	10
MTBE	65	0.5
Isopropyl Ether (DIPE)	1.4	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	106215
Units:	ug/L	Analyzed:	09/28/05
Diln Fac:	1.000		

Type: BS Lab ID: QC310797

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	118.2	95	66-138
MTBE	25.00	20.67	83	72-120
Isopropyl Ether (DIPE)	25.00	19.73	79	74-121
Ethyl tert-Butyl Ether (ETBE)	25.00	22.53	90	77-123
1,2-Dichloroethane	25.00	24.27	97	77-120
Benzene	25.00	24.11	96	80-120
Methyl tert-Amyl Ether (TAME)	25.00	24.14	97	77-120
Toluene	25.00	25.61	102	80-120
1,2-Dibromoethane	25.00	24.65	99	80-120
Ethylbenzene	25.00	27.02	108	80-120
m,p-Xylenes	50.00	53.16	106	80-121
o-Xylene	25.00	26.15	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	96	80-124

Type: BSD Lab ID: QC310798

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	120.5	96	66-138	2	25
MTBE	25.00	20.85	83	72-120	1	20
Isopropyl Ether (DIPE)	25.00	19.50	78	74-121	1	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.86	91	77-123	1	20
1,2-Dichloroethane	25.00	23.74	95	77-120	2	20
Benzene	25.00	23.60	94	80-120	2	20
Methyl tert-Amyl Ether (TAME)	25.00	23.64	95	77-120	2	20
Toluene	25.00	25.16	101	80-120	2	20
1,2-Dibromoethane	25.00	24.32	97	80-120	1	20
Ethylbenzene	25.00	26.48	106	80-120	2	20
m,p-Xylenes	50.00	53.57	107	80-121	1	20
o-Xylene	25.00	26.16	105	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	98	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-124

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC310800	Batch#:	106215
Matrix:	Water	Analyzed:	09/28/05
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	103	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	106246
Units:	ug/L	Analyzed:	09/29/05
Diln Fac:	1.000		

Type: BS Lab ID: QC310951

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	116.8	93	66-138
MTBE	25.00	21.03	84	72-120
Isopropyl Ether (DIPE)	25.00	19.75	79	74-121
Ethyl tert-Butyl Ether (ETBE)	25.00	23.08	92	77-123
1,2-Dichloroethane	25.00	23.90	96	77-120
Benzene	25.00	23.59	94	80-120
Methyl tert-Amyl Ether (TAME)	25.00	23.21	93	77-120
Toluene	25.00	25.23	101	80-120
1,2-Dibromoethane	25.00	24.41	98	80-120
Ethylbenzene	25.00	26.30	105	80-120
m,p-Xylenes	50.00	52.44	105	80-121
o-Xylene	25.00	25.67	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-124

Type: BSD Lab ID: QC310952

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	120.1	96	66-138	3	25
MTBE	25.00	21.22	85	72-120	1	20
Isopropyl Ether (DIPE)	25.00	19.54	78	74-121	1	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.89	92	77-123	1	20
1,2-Dichloroethane	25.00	24.04	96	77-120	1	20
Benzene	25.00	23.47	94	80-120	0	20
Methyl tert-Amyl Ether (TAME)	25.00	23.45	94	77-120	1	20
Toluene	25.00	25.14	101	80-120	0	20
1,2-Dibromoethane	25.00	24.38	98	80-120	0	20
Ethylbenzene	25.00	26.26	105	80-120	0	20
m,p-Xylenes	50.00	52.24	104	80-121	0	20
o-Xylene	25.00	25.88	104	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	98	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	95	80-124

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC310954	Batch#:	106246
Matrix:	Water	Analyzed:	09/29/05
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	108	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	106298
Units:	ug/L	Analyzed:	09/30/05
Diln Fac:	1.000		

Type: BS Lab ID: QC311169

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	119.7	96	66-138
MTBE	25.00	22.49	90	72-120
Isopropyl Ether (DIPE)	25.00	23.05	92	74-121
Ethyl tert-Butyl Ether (ETBE)	25.00	24.92	100	77-123
1,2-Dichloroethane	25.00	25.62	102	77-120
Benzene	25.00	24.34	97	80-120
Methyl tert-Amyl Ether (TAME)	25.00	22.88	92	77-120
Toluene	25.00	24.81	99	80-120
1,2-Dibromoethane	25.00	23.59	94	80-120
Ethylbenzene	25.00	24.92	100	80-120
m,p-Xylenes	50.00	50.54	101	80-121
o-Xylene	25.00	26.31	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	104	80-125
Toluene-d8	98	80-120
Bromofluorobenzene	94	80-124

Type: BSD Lab ID: QC311170

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	115.7	93	66-138	3	25
MTBE	25.00	21.66	87	72-120	4	20
Isopropyl Ether (DIPE)	25.00	22.23	89	74-121	4	20
Ethyl tert-Butyl Ether (ETBE)	25.00	24.95	100	77-123	0	20
1,2-Dichloroethane	25.00	25.13	101	77-120	2	20
Benzene	25.00	24.00	96	80-120	1	20
Methyl tert-Amyl Ether (TAME)	25.00	23.14	93	77-120	1	20
Toluene	25.00	24.89	100	80-120	0	20
1,2-Dibromoethane	25.00	24.26	97	80-120	3	20
Ethylbenzene	25.00	24.46	98	80-120	2	20
m,p-Xylenes	50.00	49.11	98	80-121	3	20
o-Xylene	25.00	25.37	101	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	102	80-125
Toluene-d8	102	80-120
Bromofluorobenzene	94	80-124

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC311171	Batch#:	106298
Matrix:	Water	Analyzed:	09/30/05
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-121
1,2-Dichloroethane-d4	108	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	106344
Units:	ug/L	Analyzed:	10/03/05
Diln Fac:	1.000		

Type: BS Lab ID: QC311343

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	134.5	108	66-138
MTBE	25.00	23.74	95	72-120
Isopropyl Ether (DIPE)	25.00	23.25	93	74-121
Ethyl tert-Butyl Ether (ETBE)	25.00	27.09	108	77-123
1,2-Dichloroethane	25.00	26.75	107	77-120
Benzene	25.00	25.84	103	80-120
Methyl tert-Amyl Ether (TAME)	25.00	26.53	106	77-120
Toluene	25.00	27.68	111	80-120
1,2-Dibromoethane	25.00	26.93	108	80-120
Ethylbenzene	25.00	28.28	113	80-120
m,p-Xylenes	50.00	56.46	113	80-121
o-Xylene	25.00	27.57	110	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	100	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-124

Type: BSD Lab ID: QC311344

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	125.7	101	66-138	7	25
MTBE	25.00	23.17	93	72-120	2	20
Isopropyl Ether (DIPE)	25.00	22.03	88	74-121	5	20
Ethyl tert-Butyl Ether (ETBE)	25.00	25.90	104	77-123	4	20
1,2-Dichloroethane	25.00	24.39	98	77-120	9	20
Benzene	25.00	23.87	95	80-120	8	20
Methyl tert-Amyl Ether (TAME)	25.00	24.91	100	77-120	6	20
Toluene	25.00	25.64	103	80-120	8	20
1,2-Dibromoethane	25.00	24.09	96	80-120	11	20
Ethylbenzene	25.00	26.21	105	80-120	8	20
m,p-Xylenes	50.00	51.91	104	80-121	8	20
o-Xylene	25.00	25.87	103	80-120	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	100	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-124

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC311345	Batch#:	106344
Matrix:	Water	Analyzed:	10/03/05
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	102	80-125
Toluene-d8	102	80-120
Bromofluorobenzene	102	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline Oxygenates by GC/MS

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05

Field ID:	MW-1	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	106246
Lab ID:	182018-001	Analyzed:	09/29/05

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	240	50
MTBE	ND	2.5
Isopropyl Ether (DIPE)	ND	2.5
Ethyl tert-Butyl Ether (ETBE)	ND	2.5
Methyl tert-Amyl Ether (TAME)	ND	2.5
1,2-Dichloroethane	6.5	2.5
1,2-Dibromoethane	ND	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-124

Field ID:	MW-2	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	106246
Lab ID:	182018-002	Analyzed:	09/29/05

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	130	10
MTBE	58	0.5
Isopropyl Ether (DIPE)	0.7	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	0.6	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline Oxygenates by GC/MS

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05

Field ID:	MW-3	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	106246
Lab ID:	182018-003	Analyzed:	09/30/05

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	94	10
MTBE	59	0.5
Isopropyl Ether (DIPE)	0.9	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	1.5	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-121
1,2-Dichloroethane-d4	102	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	105	80-124

Field ID:	MW-5	Diln Fac:	2.500
Type:	SAMPLE	Batch#:	106246
Lab ID:	182018-005	Analyzed:	09/29/05

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	87	25
MTBE	ND	1.3
Isopropyl Ether (DIPE)	ND	1.3
Ethyl tert-Butyl Ether (ETBE)	ND	1.3
Methyl tert-Amyl Ether (TAME)	ND	1.3
1,2-Dichloroethane	7.7	1.3
1,2-Dibromoethane	ND	1.3

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	93	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline Oxygenates by GC/MS

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05

Field ID:	MW-6	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	106215
Lab ID:	182018-006	Analyzed:	09/29/05

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	43	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	0.7	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	15	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	97	80-124

Field ID:	MW-8	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	106215
Lab ID:	182018-008	Analyzed:	09/29/05

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	120	10
MTBE	65	0.5
Isopropyl Ether (DIPE)	1.4	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	ND	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-124

ND= Not Detected
RL= Reporting Limit

Gasoline Oxygenates by GC/MS

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05

Type: BLANK Batch#: 106215
Lab ID: QC310799 Analyzed: 09/28/05
Diln Fac: 1.000

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	ND	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	101	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-124

Type: BLANK Batch#: 106215
Lab ID: QC310800 Analyzed: 09/28/05
Diln Fac: 1.000

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	ND	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	103	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline Oxygenates by GC/MS

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	09/19/05
Units:	ug/L	Received:	09/20/05

Type:	BLANK	Batch#:	106246
Lab ID:	QC310953	Analyzed:	09/29/05
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	ND	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-121
1,2-Dichloroethane-d4	100	80-125
Toluene-d8	98	80-120
Bromofluorobenzene	100	80-124

Type:	BLANK	Batch#:	106246
Lab ID:	QC310954	Analyzed:	09/29/05
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
1,2-Dichloroethane	ND	0.5
1,2-Dibromoethane	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	108	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Gasoline Oxygenates by GC/MS

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	106215
Units:	ug/L	Analyzed:	09/28/05
Diln Fac:	1.000		

Type: BS Lab ID: QC310797

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	118.2	95	66-138
MTBE	25.00	20.67	83	72-120
Isopropyl Ether (DIPE)	25.00	19.73	79	74-121
Ethyl tert-Butyl Ether (ETBE)	25.00	22.53	90	77-123
Methyl tert-Amyl Ether (TAME)	25.00	24.14	97	77-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	96	80-124

Type: BSD Lab ID: QC310798

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	120.5	96	66-138	2	25
MTBE	25.00	20.85	83	72-120	1	20
Isopropyl Ether (DIPE)	25.00	19.50	78	74-121	1	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.86	91	77-123	1	20
Methyl tert-Amyl Ether (TAME)	25.00	23.64	95	77-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	98	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-124

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Gasoline Oxygenates by GC/MS

Lab #:	182018	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	106246
Units:	ug/L	Analyzed:	09/29/05
Diln Fac:	1.000		

Type: BS Lab ID: QC310951

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	116.8	93	66-138
MTBE	25.00	21.03	84	72-120
Isopropyl Ether (DIPE)	25.00	19.75	79	74-121
Ethyl tert-Butyl Ether (ETBE)	25.00	23.08	92	77-123
Methyl tert-Amyl Ether (TAME)	25.00	23.21	93	77-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-124

Type: BSD Lab ID: QC310952

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	120.1	96	66-138	3	25
MTBE	25.00	21.22	85	72-120	1	20
Isopropyl Ether (DIPE)	25.00	19.54	78	74-121	1	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.89	92	77-123	1	20
Methyl tert-Amyl Ether (TAME)	25.00	23.45	94	77-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	98	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	95	80-124

RPD= Relative Percent Difference

APPENDIX C

Historical Groundwater Monitoring Well Analytical Data

TABLE C-1
Historical Groundwater Monitoring Well Groundwater Analytical Results
Petroleum and Aromatic Hydrocarbons (µg/L)
240 W. MacArthur Boulevard, Oakland, Alameda, California

MW-1									
Well Purged?	**Sampling Event No.**	**Date Sampled**	**TVH-g**	**TEH-d**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Yes	1	Aug-97	1,140	*< 1,000*	110	16	15	112	*NA*
Yes	2	Dec-97	*ND*	*NA*	*ND*	*ND*	*ND*	31	*NA*
Yes	3	Mar-98	370	*NA*	8.9	*< 0.5*	*< 0.5*	2.2	18
Yes	4	Jul-98	6,400	*NA*	1,300	23	3.7	58	97
Yes	5	Oct-98	2,500	*NA*	360	44	1.3	150	*< 0.5*
Yes	6	Jan-99	2,700	*NA*	1,200	28	140	78	130
(a)	7	Jun-00	27,000	*NA*	5,200	500	320	3,100	1,300
(a)	8	Dec-00	976,000	*NA*	2,490	1,420	3,640	10,100	*< 150*
(a)	9	Feb-01	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
(a)	10	May-01	20,000	*NA*	2,900	310	230	1,900	*< 30*
(a)	11	Jul-01	92,000	*NA*	2,900	580	2,800	20,000	560
Pre“hi-vac”	12	Oct 22-01	20,000	*NA*	3,700	560	410	4,600	2,600
Post “hi-vac”	12	Oct 26-01	*< 0.05*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
(a)	13	Dec-01	3,300	*NA*	200	12	5.7	43	44
No	14	Mar-02	4,600	*NA*	820	4.4	100	300	210
No	15	May-02	1,600	*NA*	100	23	20	190	7.7
No	16	Jul-02	2,300	*NA*	250	15	13	180	180
No	17	Oct-02	1,820	*NA*	222	16	*< 0.3*	59	58
No	18	Jan-03	2,880	*NA*	188	*< 50*	*< 50*	157	20
No	19	Mar-03	6,700	*NA*	607	64	64	288	*< 0.18*
No	20	Aug-03	4,900	5,000	740	45	85	250	14
Pre-Purge	21	Dec-03	5,060	400	654	11	79	92	129
Post-Purge	21	Dec-03	8,930	800	1,030	55	127	253	212
Yes	22	Mar-04	11,300	1,100	483	97	122	452	67
Yes	23	Jun-04	9,300	4,000	1,700	75	92	350	6.0
Yes	24	Sep-04	9,100	97	920	19	82	201	7.2
Yes	25	Dec-04	11,000	3,300	830	21	74	118	7.9
Yes	26	Mar-05	4,700	3,500	450	28	42	97	6.7
Yes	27	Jun-05	21,000	6,800	1,900	270	320	2,800	*< 13*
Yes	28	Sep-05	23,000	2,500	2,100	100	200	880	*< 2.5*

(table continued on next page; footnotes on final page)

TABLE C-1 (continued)

MW-2									
Well Purged?	**Sampling Event No.**	**Date Sampled**	**TVH-g**	**TEH-d**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Yes	1	Aug-97	5,350	*< 1,000*	108	36	33	144	*NA*
Yes	2	Dec-97	1,600	*NA*	73	*ND*	*ND*	*ND*	*NA*
Yes	3	Mar-98	3,400	*NA*	830	100	210	240	870
Yes	4	Jul-98	3,100	*NA*	25	2.2	*< 0.5*	0.9	1,900
Yes	5	Oct-98	4,300	*NA*	*< 0.5*	1.2	*< 0.5*	1	4,200
Yes	6	Jan-99	2,900	*NA*	160	8.9	6.9	78.4	2,100
(a)	7	Jun-00	2,700	*NA*	200	17	30	16	680
(a)	8	Dec-00	3,020	*NA*	56.7	*< 1.5*	*< 1.5*	*< 3.0*	3,040
(a)	9	Feb-01	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
(a)	10	May-01	720	*NA*	49	*< 3.0*	4.6	*< 3.0*	380
(a)	11	Jul-01	8,400	*NA*	350	44	77	78	550
Pre"hi-vac"	12	Oct 22-01	850	*NA*	170	4.9	5.1	14	260
Post "hi-vac"	12	Oct 26-01	770	*NA*	86	5.5	9.6	8.5	310
(a)	13	Dec-01	1,300	*NA*	9.2	*< 2.0*	*< 2.0*	*< 2.0*	370
No	14	Mar-02	1,300	*NA*	76	3.8	21	15	460
No	15	May-02	320	*NA*	12	1.1	4.6	4.8	160
No	16	Jul-02	1,300	*NA*	130	1.0	9.4	5.6	420
No	17	Oct-02	1,060	*NA*	12	2.2	4.2	3.5	270
No	18	Jan-03	581	*NA*	6.5	*< 5.0*	*< 5.0*	*< 5.0*	130
No	19	Mar-03	1,250	*NA*	*< 0.22*	*< 0.32*	*< 0.31*	*< 0.4*	155
No	20	Aug-03	2,200	730	58	9.2	*< 0.5*	28	240
Pre-Purge	21	Dec-03	2,120	100	45	9.4	9.5	20	289
Post-Purge	21	Dec-03	1,980	100	29	22.0	7.4	13	295
Yes	22	Mar-04	2,700	100	12	16.0	9	12	249
Yes	23	Jun-04	1,200	370	42	0.7	2.6	0.9	170
Yes	24	Sep-04	1,500	280	14	*< 0.5*	*< 0.5*	0.6	130
Yes	25	Dec-04	1,400	540	26	1.1	1.8	3.5	91
Yes	26	Mar-05	2,300	420	5.3	*< 1.0*	3.7	*< 2.0*	120
Yes	27	Jun-05	1,600	500	14	*< 0.5*	1.8	0.68	66
Yes	28	Sep-05	1,400	210	30	1.3	12	26	58

(table continued on next page; footnotes on final page)

TABLE C-1 (continued)

MW-3									
Well Purged?	**Sampling Event No.**	**Date Sampled**	**TVH-g**	**TEH-d**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Yes	1	Aug-97	8,500	*< 1,000*	450	30	53	106	*NA*
Yes	2	Dec-97	5,200	*NA*	180	6.0	5.0	9.3	*NA*
Yes	3	Mar-98	1,000	*NA*	6.0	*< 0.5*	*< 0.5*	*< 0.5*	810
Yes	4	Jul-98	6,400	*NA*	490	57	23	78	220
Yes	5	Oct-98	2,100	*NA*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	2,100
Yes	6	Jan-99	4,400	*NA*	450	65	26	42	1,300
(a)	7	Jun-00	1,700	*NA*	110	13	34	13	96
(a)	8	Dec-00	5,450	*NA*	445	*< 7.5*	23.8	*< 7.5*	603
(a)	9	Feb-01	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
(a)	10	May-01	1,900	*NA*	180	12	*< 3.0*	19	330
(a)	11	Jul-01	10,000	*NA*	830	160	150	260	560
Pre“hi-vac”	12	Oct 22-01	1,400	*NA*	240	7.8	4.1	15	220
Post “hi-vac”	12	Oct 26-01	1,900	*NA*	200	16	51	30	290
(a)	13	Dec-01	5,800	*NA*	93	*< 20*	31	*< 20*	330
No	14	Mar-02	1,900	*NA*	220	16	31	24	400
No	15	May-02	1,600	*NA*	110	3.4	29	14	320
No	16	Jul-02	1,900	*NA*	210	27	30	55	200
No	17	Oct. 2002	3,030	*NA*	178	19	6.2	36	178
No	18	Jan-03	2,980	*NA*	47	*< 5.0*	7.6	6.3	105
No	19	Mar-03	3,620	*NA*	124	*< 0.32*	22	12	139
No	20	Aug-03	3,800	2,400	170	28	31	31	170
Pre-Purge	21	Dec-03	5,550	400	311	20	41	48	357
Post-Purge	21	Dec-03	6,860	500	312	20	55	58	309
Yes	22	Mar-04	5,490	500	82	34	46	49	249
Yes	23	Jun-04	5,400	1,100	150	30	45	66	130
Yes	24	Sep-04	5,400	1,500	70	3.2	16	13	110
Yes	25	Dec-04	5,300	2,400	91	7.4	21	19	92
Yes	26	Mar-05	4,700	2,000	19	1.1	9.9	3.7	76
Yes	27	Jun-05	4,200	1,800	49	4.5	23.0	16.2	66
Yes	28	Sep-05	5,000	950	60	3	12	25.8	59

(table continued on next page; footnotes on final page)

TABLE C-1 (continued)

MW-4									
Well Purged?	**Sampling Event No.**	**Date Sampled**	**TVH-g**	**TEH-d**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Yes	1	Aug-97	*< 500*	*< 1,000*	*< 0.5*	*< 0.5*	*< 0.5*	*< 1.5*	*NA*
Yes	2	Dec-97	*ND*	*NA*	*ND*	*ND*	*ND*	*ND*	*NA*
Yes	3	Mar-98	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Yes	4	Jul-98	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Yes	5	Oct-98	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Yes	6	Jan-99	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
(a)	7	Jun-00	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
(a)	8	Dec-00	*< 500*	*NA*	*< 0.3*	*< 0.3*	*< 0.6*	*< 0.3*	*< 0.3*
(a)	9	Feb-01	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
(a)	10	May-01	*< 50*	*NA*	1.2	*< 0.3*	0.55	1.2	2.9
(a)	11	Jul-01	*< 5.0*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Pre“hi-vac”	12	Oct 22-01	*< 5.0*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Post “hi-vac”	12	Oct 26-01	*< 5.0*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
(a)	13	Dec-01	*ND*	*NA*	*ND*	*ND*	*ND*	*ND*	*ND*
No	14	Mar-02	*< 50*	*NA*	*< 1*	*< 1*	*< 1*	*< 1*	*< 1*
No	15	May-02	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
No	16	Jul-02	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
No	17	Oct-02	*< 100*	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	*< 0.3*
No	18	Jan-03	*< 100*	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	14
No	19	Mar-03	*< 15*	*NA*	*< 0.4*	*< 0.02*	*< 0.02*	*< 0.06*	5.2
No	20	Aug-03	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Pre-Purge	21	Dec-03	71	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	*< 5.0*
Post-Purge	21	Dec-03	63	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	*< 5.0*
Yes	22	Mar-04	*< 50*	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	*< 5.0*
Yes	23	Jun-04	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	0.9
Yes	24	Sep-04	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	2.3
Yes	25	Dec-04	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	26	Mar-05	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	27	Jun-05	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	28	Sep-05	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

(table continued on next page; footnotes on final page)

TABLE C-1 (continued)

MW-5									
Well Purged?	**Sampling Event No.**	**Date Sampled**	**TVH-g**	**TEH-d**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
(a)	9	Feb-01	5,660	*NA*	76.9	21.1	47.3	312	*< 0.3*
(a)	10	May-01	22,000	*NA*	2,600	480	220	2,700	*< 30*
(a)	11	Jul-01	72,000	*NA*	3,500	1,100	4,300	22,000	2,500
Pre"hi-vac"	12	Oct 22-01	26,000	*NA*	2,800	980	6,000	950	2,300
Post "hi-vac"	12	Oct 26-01	17,000	*NA*	1,200	470	2,900	440	900
(a)	13	Dec-01	2,000	*NA*	620	190	110	910	*< 20*
No	14	Mar-02	8,800	*NA*	1,200	72	7.4	350	1,200
No	15	May-02	2,000	*NA*	150	38	21	260	13
No	16	Jul-02	4,200	*NA*	480	68	29	280	450
No	17	Oct-02	5,370	*NA*	236	45	23	39	135
No	18	Jan-03	8,270	*NA*	615	156	174	1,010	*< 10*
No	19	Mar-03	12,400	*NA*	824	195	213	1,070	*< 0.18*
No	20	Aug-03	18,000	10,000	950	290	330	1,820	*< 2.0*
Pre-Purge	21	Dec-03	12,800	600	1,140	327	354	1,530	682
Post-Purge	21	Dec-03	11,900	800	627	263	288	1,230	595
Yes	22	Mar-04	20,700	850	867	266	305	678	145
Yes	23	Jun-04	12,000	1,700	920	240	260	1,150	*< 3.1*
Yes	24	Sep-04	13,000	1,900	580	240	260	1,260	*< 4.2*
Yes	25	Dec-04	16,000	3,300	730	200	250	1,100	*< 4.2*
Yes	26	Mar-05	6,300	4,600	190	28	42	280	*< 1.7*
Yes	27	Jun-05	16,000	4,100	1,100	260	380	1,590	*< 7.1*
Yes	28	Sep-05	15,000	3,600	810	210	300	1,300	*< 1.3*

(table continued on next page; footnotes on final page)

TABLE C-1 (continued)

MW-6									
Well Purged?	**Sampling Event No.**	**Date Sampled**	**TVH-g**	**TEH-d**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
(a)	9	Feb-01	1,340	*NA*	17	0.967	11.1	51.4	*< 0.3*
(a)	10	May-01	610	*NA*	15	0.97	*< 0.5*	46	*< 0.5*
(a)	11	Jul-01	2,500	*NA*	130	4.7	53	170	120
Pre"hi-vac"	12	Oct 22-01	280	*NA*	18	1.2	6.2	4.7	6.0
Post "hi-vac"	12	Oct 26-01	3,600	*NA*	210	20	170	62	120
(a)	13	Dec-01	5,300	*NA*	69	5.6	14	17	*< 2.0*
No	14	Mar-02	71	*NA*	54	4.2	27	17	8.5
No	15	May-02	150	*NA*	9.3	*< 0.5*	*< 0.5*	*< 0.5*	1.5
No	16	Jul-02	2,200	*NA*	98	32	46	150	66
No	17	Oct-02	786	*NA*	48	5.0	2.2	44	16
No	18	Jan-03	497	*NA*	6.8	*< 5.0*	*< 5.0*	11	*< 1.0*
No	19	Mar-03	258	*NA*	5.4	*< 0.32*	3.3	*< 1.1*	*< 0.18*
No	20	Aug-03	1,600	2,800	37	4.1	23	58	*< 0.5*
Pre-Purge	21	Dec-03	444	100	4.7	4.9	1.8	5.9	4.4
Post-Purge	21	Dec-03	365	200	2.5	3.8	1.4	6.1	*< 5.0*
Yes	22	Mar-04	215	140	4.0	1.2	1.4	1.4	3.7
Yes	23	Jun-04	710	830	14.0	0.7	5.2	6.6	*< 0.5*
Yes	24	Sep-04	350	600	*< 0.5*	2.4	*< 0.5*	*< 0.5*	*< 0.5*
Yes	25	Dec-04	280	1,100	4.9	*< 0.5*	1.4	4.4	*< 0.5*
Yes	26	Mar-05	300	980	5.4	*< 0.5*	3.3	2.3	*< 0.5*
Yes	27	Jun-05	150	1,100	*< 0.5*	*< 0.5*	*< 0.5*	0.77	28
Yes	28	Sep-05	680	200	13	0.9	7	13	*< 0.5*

(table continued on next page; footnotes on final page)

TABLE C-1 (continued)

MW-7									
Well Purged?	**Sampling Event No.**	**Date Sampled**	**TVH-g**	**TEH-d**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
(a)	9	Feb-01	*ND*	*NA*	*ND*	*ND*	*ND*	*ND*	*ND*
(a)	10	May-01	*< 50*	*NA*	0.75	0.77	0.48	2.4	1.1
(a)	11	Jul-01	*< 5.0*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Pre“hi-vac”	12	Oct 22-01	*< 5.0*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Post “hi-vac”	12	Oct 26-01	6,000	*NA*	170	550	110	120	970
(a)	13	Dec-01	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	43
No	14	Mar-02	*< 50*	*NA*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
No	15	May-02	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
No	16	Jul-02	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
No	17	Oct-02	*< 100*	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	*< 5.0*
No	18	Jan-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
No	19	Mar-03	*< 15*	*NA*	*< 0.04*	*< 0.02*	*< 0.02*	*< 0.06*	*< 0.03*
No	20	Aug-03	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Pre-Purge	21	Dec-03	*< 50*	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	*< 5.0*
Post-Purge	21	Dec-03	*< 50*	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	*< 5.0*
Yes	22	Mar-04	86	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	57
Yes	23	Jun-04	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Yes	24	Sep-04	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Yes	25	Dec-04	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	26	Mar-05	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	27	Jun-05	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	28	Sep-05	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

(table continued on next page; footnotes on final page)

TABLE C-1 (continued)

MW-8									
Well Purged?	**Sampling Event No.**	**Date Sampled**	**TVH-g**	**TEH-d**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
(a)	9	Feb-01	1,000	*NA*	3.97	< 0.3	3.78	1.63	620
(a)	10	May-01	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	4.4
(a)	11	Jul-01	*< 5.0*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Pre"hi-vac"	12	Oct 22-01	*< 5.0*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
Post "hi-vac"	12	Oct 26-01	*< 5.0*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
(a)	13	Dec-01	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
No	14	Mar-02	*< 50*	*NA*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
No	15	May-02	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
No	16	Jul-02	*< 50*	*NA*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*
No	17	Oct-02	458	*NA*	1.7	*< 0.3*	*< 0.3*	*< 0.6*	233
No	18	Jan-03	*< 100*	*NA*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	*< 5.0*
No	19	Mar-03	*< 15*	*NA*	*< 0.22*	*< 0.32*	*< 0.31*	*< 0.4*	*< 0.18*
No	20	Jul-03	190	*< 50*	*< 0.5*	*< 0.5*	*< 0.5*	0.6	*< 0.5*
Pre-Purge	21	Dec-03	144	*< 100*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	7.6
Post-Purge	21	Dec-03	163	*< 100*	*< 0.3*	*< 0.3*	*< 0.3*	*< 0.6*	66
Yes	22	Mar-04	412	*< 100*	1.2	*< 0.3*	1.7	3.9	66
Yes	23	Jun-04	320	68	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	120
Yes	24	Sep-04	280	2600	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	120
Yes	25	Dec-04	270	84	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	94
Yes	26	Mar-05	270	120	*< 0.5*	*< 0.5*	*< 0.5*	*< 1.0*	66
Yes	27	Jun-05	510	63	6.8	*< 0.5*	2.4	5.3	*< 0.5*
Yes	28	Sep-05	520	*< 50*	*< 0.5*	*< 0.5*	*< 0.5*	*< 1.0*	65

Notes:

(a) Data not available to SES as to whether the samples were collected "post-purge" or without purging.

"No Purge" means no purging was conducted before the groundwater sample was collected.

TVH-g = Total volatile hydrocarbons – gasoline range. TEH-d – Total extractable hydrocarbons – diesel range.

NA = Not analyzed for this constituent in this event.

ND = Not Detected (method reporting limit not specified in information available to SES).

TABLE C-2
Historical Groundwater Monitoring Well Groundwater Analytical Results
Fuel Oxygenates and VOCs (µg/L)
240 W. MacArthur Boulevard, Oakland, California

Well I.D.	Sampling Event No.	Date Sampled	EDB	EDC	1,2,4-TMB	1,3,5-TMB	t-Butanol	TBA	DIPE	Naphthalene	cis-1,2-DCE	TCE	PCE	Others
	7	Jun-00	*< 5.0*	*< 5.0*	**51**	*< 5*	*< 1,000*	*< 1000*	*< 50*	*<5*	*< 5*	*< 5*	*< 5*	*ND*
	14	Mar-02	*< 1.0*	*< 1.0*	*< 1*	**1.6**	< 10	*NA*	*< 2*	*< 1*	*< 1*	*< 1*	*< 1*	*ND*
	18	Jan-03	*< 50*	*< 50*	**150**	*< 50*	*NA*	**68**	*< 10*	*< 50*	*< 50*	*< 50*	*< 50*	*ND*
MW-1	19	Mar-03	*< 0.26*	*< 0.17*	**373**	*< 0.49*	*NA*	*< 10*	*< 0.29*	*< 0.88*	*< 0.30*	*< 0.23*	*< 0.36*	*ND*
	20	Aug-03	*< 1.0*	**7.2**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	21	Dec-03	*< 5.0*	*< 5.0*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	22	Mar-04	*< 0.26*	*< 0.17*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	23	Jun-04	*< 5.0*	*< 5.0*	*NA*	*NA*	*NA*	**270**	*< 5.0*	*NA*	*NA*	*NA*	*NA*	*NA*
	24	Sep-04	*< 5.0*	*< 5.0*	*NA*	*NA*	*NA*	**120**	*< 5.0*	*NA*	*NA*	*NA*	*NA*	*NA*
	25	Dec-04	*< 1.3*	*< 1.3*	*NA*	*NA*	*NA*	*< 25*	*< 1.3*	*NA*	*NA*	*NA*	*NA*	*NA*
	26	Mar-05	*< 0.50*	*< 0.50*	*NA*	*NA*	*NA*	*< 10*	*< 0.50*	*NA*	*NA*	*NA*	*NA*	*NA*
	27	Jun-05	*< 13*	*< 13*	*NA*	*NA*	*NA*	*< 250*	*< 13*	*NA*	*NA*	*NA*	*NA*	*NA*
	28	Sep-05	*< 2.5*	**6.5**	*NA*	*NA*	*NA*	**240**	*< 2.5*	*NA*	*NA*	*NA*	*NA*	*NA*
	7	Jun-00	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 100*	*< 100*	*< 5.0*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*ND*
	14	Mar-02	*< 1.0*	*< 1.0*	*< 1*	*< 1*	**220**	*NA*	*< 2*	*< 1*	*< 1*	*< 1*	*< 1*	*ND*
	18	Jan-03	*< 5*	*< 5*	*< 5*	*< 5*	*NA*	**34**	*< 1*	*< 5*	**24**	*< 5*	*< 5*	*ND*
	19	Mar-03	*< 0.26*	*< 0.17*	*< 0.49*	*< 0.26*	*NA*	**94**	*< 0.29*	*< 0.88*	**15**	*< 0.23*	*< 0.36*	*ND*
MW-2	21	Dec-03	*< 0.6*	*< 0.6*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	20	Aug-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	21	Dec-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	22	Mar-04	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	23	Jun-04	*< 0.5*	**2.0**	*NA*	*NA*	*NA*	**190**	**1.1**	*NA*	*NA*	*NA*	*NA*	*NA*
	24	Sep-04	*< 0.5*	**1.2**	*NA*	*NA*	*NA*	**130**	**0.9**	*NA*	*NA*	*NA*	*NA*	*NA*
	25	Dec-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*< 10*	**0.8**	*NA*	*NA*	*NA*	*NA*	*NA*
	26	Mar-05	*< 1.0*	*< 1..0*	*NA*	*NA*	*NA*	*< 20*	**1.3**	*NA*	*NA*	*NA*	*NA*	*NA*
	27	Jun-05	*< 0.50*	*< 0.50*	*NA*	*NA*	*NA*	**200**	**0.79**	*NA*	*NA*	*NA*	*NA*	*NA*
	28	Sep-05	*< 0.50*	**0.6**	*NA*	*NA*	*NA*	**150**	**0.8**	*NA*	*NA*	*NA*	*NA*	*NA*

(table continued on next page)

Table C-2 Continued

Well I.D.	Sampling Event No.	Date Sampled	EDB	EDC	1,2,4-TMB	1,3,5-TMB	t-Butanol	TBA	DIPE	Naphthalene	cis-1,2-DCE	TCE	PCE	Others
	14	Mar-02	*< 1.0*	*< 1.0*	**1.8**	**4.7**	**180**	*NA*	*< 2*	**2.2**	*< 1*	*< 1*	*< 1*	*ND*
	18	Jan-03	*< 5*	*< 5*	*< 5*	**5.0**	*NA*	**76**	*< 1*	*< 5*	**21**	*< 5*	*< 5*	(a)
	19	Mar-03	*< 0.26*	*< 0.17*	*< 0.49*	*< 0.26*	*NA*	*< 10*	*< 0.29*	*< 0.88*	**24**	*< 0.23*	*< 0.36*	*ND*
MW-3	20	Aug-03	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	21	Dec-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	22	Mar-04	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	23	Jun-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	**130**	**1.9**	*NA*	*NA*	*NA*	*NA*	*NA*
	24	Sep-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	**82**	**1.5**	*NA*	*NA*	*NA*	*NA*	*NA*
	25	Dec-04	*< 0.7*	*< 0.7*	*NA*	*NA*	*NA*	*< 14*	**1.3**	*NA*	*NA*	*NA*	*NA*	*NA*
	26	Mar-05	*< 1.0*	*< 1.0*	*NA*	*NA*	*NA*	*< 20*	**1.1**	*NA*	*NA*	*NA*	*NA*	*NA*
	27	Jun-05	*< 0.5*	*< 0.5*				**160**	**1.4**					
	28	Sep-05	*< 0.5*	**1.5**	*NA*	*NA*	*NA*	**94**	**0.9**	*NA*	*NA*	*NA*	*NA*	*NA*
	7	Jun-00	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*< 100*	*< 100*	*< 5.0*	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	*ND*
	14	Mar-02	*< 1.0*	*< 1.0*	*< 1*	*< 1*	*< 10*	*NA*	*< 2*	*< 1*	**2.9**	**3.7**	**5.0**	*ND*
	18	Jan-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*ND*
MW-4	19	Mar-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*ND*
	20	Aug-03	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	21	Dec-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	22	Mar-04	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	23	Jun-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*< 10*	*< 0.5*	*NA*	*NA*	*NA*	*NA*	*NA*
	24	Sep-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*< 10*	*< 0.5*	*NA*	*NA*	*NA*	*NA*	*NA*
	25	Dec-04	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	26	Mar-05	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	27	Jun-05	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	28	Sep-05	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

(table continued on next page)

Table C-2 Continued

Well I.D.	Sampling Event No.	Date Sampled	EDB	EDC	1,2,4-TMB	1,3,5-TMB	t-Butanol	TBA	DIPE	Naphthalene	cis-1,2-DCE	TCE	PCE	Others
	14	Mar-02	*< 1.0*	*< 1.0*	*< 1*	**2.7**	**640**	*NA*	*< 2*	*< 1*	*< 1*	*< 1*	*< 1*	*ND*
	18	Jan-03	*< 50*	*< 50*	**512**	**122**	*NA*	*< 100*	*< 10*	**120**	*< 50*	*< 50*	*< 50*	*ND*
	19	Mar-03	*< 0.26*	*< 0.17*	**554**	**107**	*NA*	*< 10*	*< 0.29*	**251**	*< 0.3*	*< 0.23*	*< 0.36*	(b)
MW-5	20	Aug-03	*< 2.0*	**6.1**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	21	Dec-03	*< 5.0*	*< 5.0*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	22	Mar-04	*< 0.26*	*< 0.17*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	23	Jun-04	*< 3.1*	*< 3.1*	*NA*	*NA*	*NA*	**120**	*< 3.1*	*NA*	*NA*	*NA*	*NA*	*NA*
	24	Sep-04	*< 4.2*	**18**	*NA*	*NA*	*NA*	**87**	*< 4.2*	*NA*	*NA*	*NA*	*NA*	*NA*
	25	Dec-04	*< 4.2*	*< 4.2*	*NA*	*NA*	*NA*	*< 83*	*< 4.2*	*NA*	*NA*	*NA*	*NA*	*NA*
	26	Mar-05	*< 1.7*	*< 1.7*	*NA*	*NA*	*NA*	*< 33*	*< 1.7*	*NA*	*NA*	*NA*	*NA*	*NA*
	27	Jun-05	*< 7.1*	*< 7.1*	*NA*	*NA*	*NA*	*< 140*	*< 7.1*	*NA*	*NA*	*NA*	*NA*	*NA*
	28	Sep-05	*< 1.3*	**7.7**	*NA*	*NA*	*NA*	**87**	*< 0.50*	*NA*	*NA*	*NA*	*NA*	*NA*
	14	Mar-02	*< 1.0*	*< 1.0*	*< 1*	**2.2**	*< 10*	*NA*	*< 2*	**1.6**	*< 1*	*< 1*	*< 1*	*ND*
	18	Jan-03	*< 5.0*	*< 5.0*	**13**	*< 5*	*NA*	**46**	*< 1*	*< 5*	*< 5*	*< 5*	*< 5*	*ND*
	19	Mar-03	*< 0.26*	**6.9**	*< 0.49*	*< 0.26*	*NA*	**40**	*< 0.29*	*< 0.88*	*< 0.3*	*< 0.23*	*< 0.36*	(c.)
	20	Aug-03	*< 0.5*	**12.0**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-6	21	Dec-03	*< 5.0*	**11 / 17.1** [(d)]	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	22	Mar-04	*< 0.26*	**31**	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	23	Jun-04	*< 0.5*	**19**	*NA*	*NA*	*NA*	**54**	**1.0**	*NA*	*NA*	*NA*	*NA*	*NA*
	24	Sep-04	*< 0.5*	**31**	*NA*	*NA*	*NA*	**43**	**1.0**	*NA*	*NA*	*NA*	*NA*	*NA*
	25	Dec-04	*< 0.5*	**24**	*NA*	*NA*	*NA*	**32**	**0.7**	*NA*	*NA*	*NA*	*NA*	*NA*
	26	Mar-05	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	27	Jun-05	*< 0.50*	*< 0.50*	*NA*	*NA*	*NA*	**26**	*< 0.50*	*NA*	*NA*	*NA*	*NA*	*NA*
	28	Sep-05	*< 0.50*	**15**	*NA*	*NA*	*NA*	**43**	**0.7**	*NA*	*NA*	*NA*	*NA*	*NA*

(table continued on next page)

Table C-2 Continued

Well I.D.	Sampling Event No.	Date Sampled	EDB	EDC	1,2,4-TMB	1,3,5-TMB	t-Butanol	TBA	DIPE	Naphthalene	cis-1,2-DCE	TCE	PCE	Others
	14	Mar-02	*< 1.0*	*< 1.0*	*< 1*	*< 1*	*< 10*	*NA*	*< 2*	*< 1*	*< 1*	*< 1*	*< 1*	*ND*
	18	Jan-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*ND*
	19	Mar-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*ND*
MW-7	20	Aug-03	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	21	Dec-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	22	Mar-04	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	23	Jun-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*< 10*	*< 0.5*	*NA*	*NA*	*NA*	*NA*	*NA*
	24	Sep-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*< 10*	*< 0.5*	*NA*	*NA*	*NA*	*NA*	*NA*
	25	Dec-04	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	26	Mar-05	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	27	Jun-05	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	28	Sep-05	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	14	Mar-02	*< 1.0*	*< 1.0*	*< 1*	*< 1*	*< 10*	*NA*	*< 2*	*< 1*	*< 1*	*< 1*	*< 1*	*ND*
	18	Jan-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*ND*
	19	Mar-03	*< 0.26*	*< 0.17*	*< 0.49*	*< 0.26*	*NA*	*< 10*	*< 0.29*	*< 0.88*	*< 0.3*	*< 0.23*	*< 0.36*	*ND*
MW-8	20	Aug-03	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	21	Dec-03	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	22	Mar-04	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	23	Jun-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	**61**	**1.0**	*NA*	*NA*	*NA*	*NA*	*NA*
	24	Sep-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	**96**	**1.1**	*NA*	*NA*	*NA*	*NA*	*NA*
	25	Dec-04	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*< 10*	**1.0**	*NA*	*NA*	*NA*	*NA*	*NA*
	26	Mar-05	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	*< 10*	**0.6**	*NA*	*NA*	*NA*	*NA*	*NA*
	27	Jun-05	*< 0.50*	**25**	*NA*	*NA*	*NA*	**42**	**1.1**	*NA*	*NA*	*NA*	*NA*	*NA*
	28	Sep-05	*< 0.50*	*< 0.50*	*NA*	*NA*	*NA*	**120**	**1.4**	*NA*	*NA*	*NA*	*NA*	*NA*

(table continued on next page)

Table C-2 - Footnotes

Notes:

Table includes only detected contaminants.

EDB = Ethylene dibromide, aka 1,2-Dibromoethane (lead scavenger)

EDC = Ethylene dichloride, aka 1,2-Dichloroethane (lead scavenger)

PCE = Tetrachloroethylene

TCE = Trichloroethyene

DCE = Dichloroethylene

TMB = Trimethylbenzene

DIPE = Isopropyl Ether (a.k.a. di-isopropyl ether)

TBA = Tertiary butyl alcohol

NLP = No Level Published

NA = Not analyzed for this constituent. ND = Not Detected

(a) Also detected were: n-propylbenzene (5.4 µg/L); p-Isopropyltoluene (14 µg/L); sec-Butylbenzene (7.2 µg/L)

(b) Also detected were: isopropylbenzene (38 µg/L); n-Butylbenzene (20 µg/L); n-propylbenzene (36 µg/L); p-Isopropyltoluene (14 µg/L).

(c.) Also detected were: isopropylbenzene (3.4 µg/L); n-propylbenzene (2.3 µg/L).

(d) Pre-purge / post-purge sampling, conducted in same event.