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THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

240 W. MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Prepared for:

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

November 2006

STELLAR
ENVIRONMENTAL SOLUTIONS, INC.
GEOSCIENCE & ENGINEERING CONSULTING

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MR. GLEN POY-WING
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OAKLAND, CALIFORNIA 94612

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November 17, 2006

Project No. 2003-43

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November 17, 2006

Mr. Jerry Wickham
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Local Oversight Program
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Third Quarter 2006 Groundwater Monitoring Report
Oakland Auto Works Facility – 240 W. MacArthur Boulevard, Oakland, California
Alameda County Environmental Health Fuel Leak Case No. RO0000142

Dear Mr. Wickham:

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 2006 groundwater monitoring event (the 32st site groundwater monitoring event since August 1997).

This report is being uploaded to both the State of California GeoTracker system and the Alameda County Environmental Health Department's Electronic Upload ftp system.

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

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

Sincerely,

Richard S. Makdisi, R.G., R.E.A.
Principal and Project Manager

cc: Mr. Glen Poy-Wing, Property Owner and Responsible Party

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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 (d/b/a 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 findings for the 32st 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 Health Care Services Agency, Department of Environmental Health (Alameda County Environmental 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 Environmental Health or Water Board cleanup orders for the site; however, all site work has been conducted under oversight of Alameda County Environmental Health. In our August 2003 review of the Alameda County Environmental Health case file, we determined that all known technical reports for the site were included in that file to that point.

The previous consultant requested site closure in March 2003 (AEC, 2003a). Alameda County Environmental 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 Environmental Health responded to that workplan in its March 2006 letter (Water Board, 2006) approving the work (with minor technical revisions). The first technical submittal deadline was July 17, 2006, for the subsurface investigation portion

of the work; however, Mr. Poy-Wing requested a deadline extension due to his exploration of a real estate sale of the property.

The site is in compliance with State of California GeoTracker requirements for uploading technical data and reports. In addition, electronic copies of technical documentation reports published since Q2 2005 have been uploaded to Alameda County Environmental Health's file transfer protocol (ftp) system. Per Alameda County Environmental Health's October 31, 2005 "Miscellaneous Administrative Topics and Procedures" directive, effective January 31, 2006, paper copies of reports will no longer be provided to Alameda County Environmental Health.

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 work conducted between July 1 and September 30, 2006 (specifically, the 32st groundwater monitoring and sampling event, conducted on September 27, 2006).

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 with an ongoing UFST-sourced groundwater investigation (*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*).

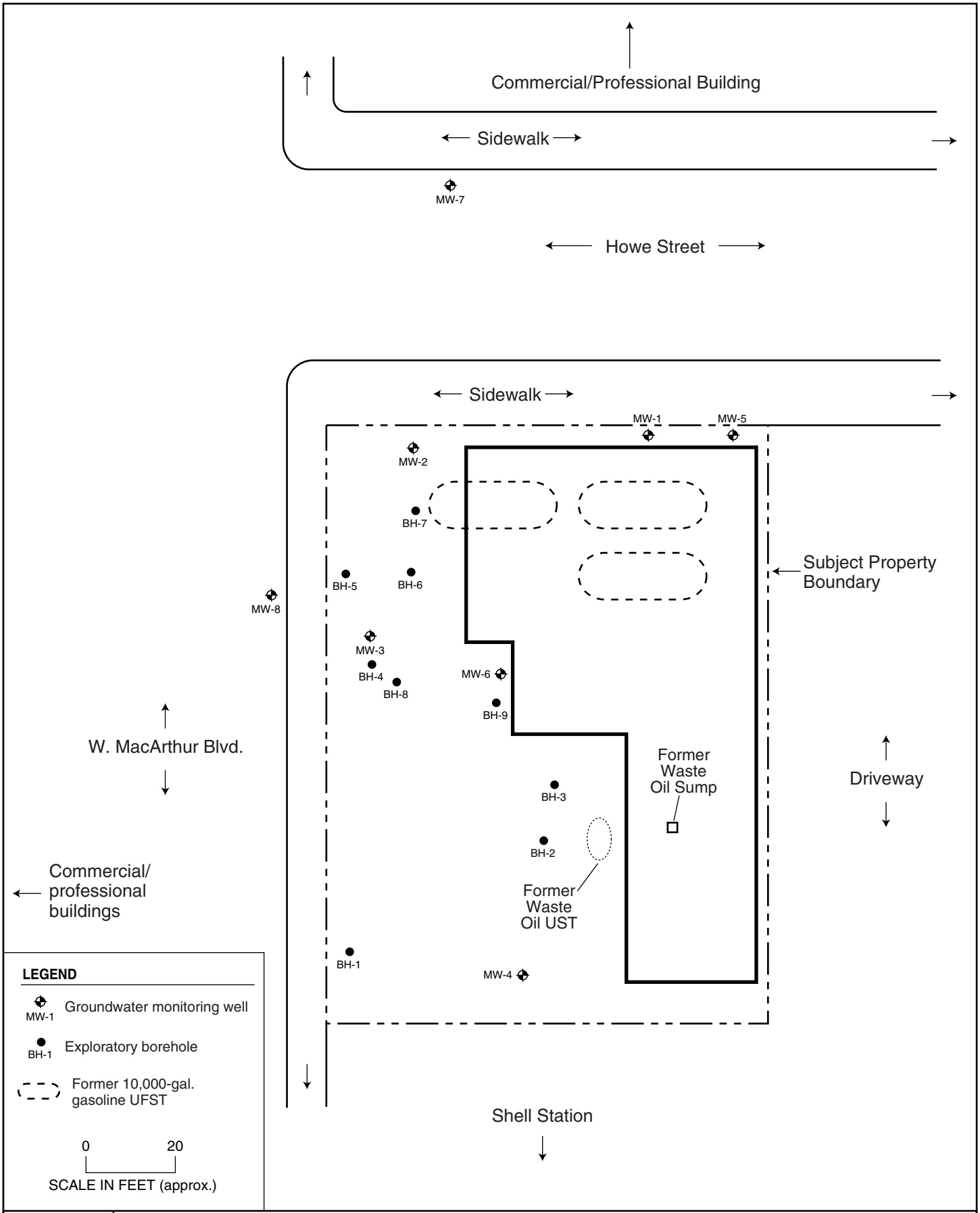
HISTORICAL ENVIRONMENTAL ACTIVITIES

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 Environmental 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** / **AUGUST 2003**	★ Stellar Environmental Solutions, Inc. Geoscience & Engineering Consulting
	Figure 2	

2003-43-02

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 Environmental 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.
- **June 2004 to present.** Quarterly groundwater monitoring events.

To date, a total of 32 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 shallower 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.

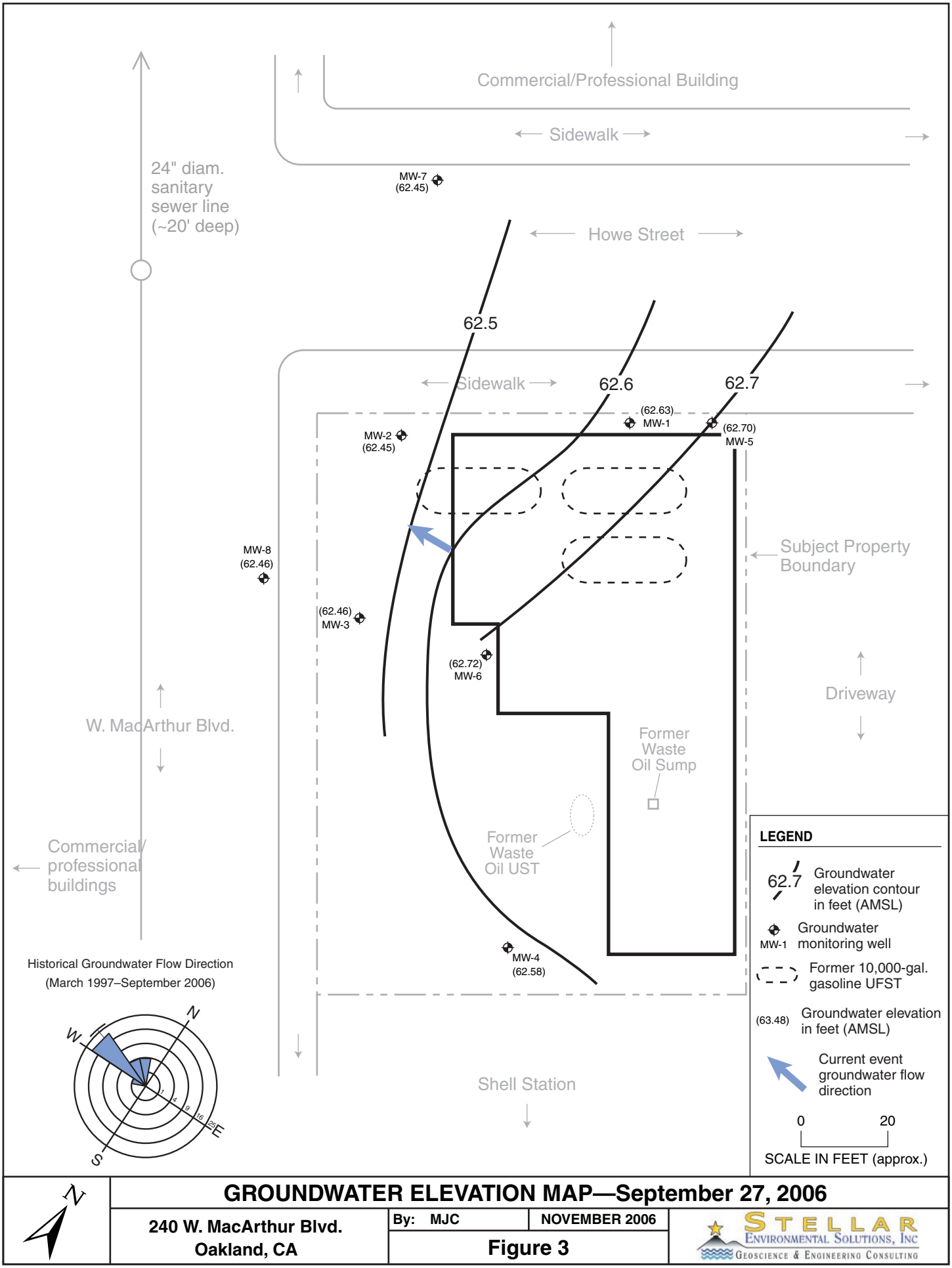
GROUNDWATER HYDROLOGY

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 2006) 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 0.006 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 27, 2006

240 W. MacArthur Blvd. Oakland, CA	By: MJC	NOVEMBER 2006
	Figure 3	

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2003-43-137

- 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 2006 GROUNDWATER MONITORING AND SAMPLING

This section presents the groundwater sampling and analytical methods for the current event (Third Quarter 2006), which was conducted on June 9, 2006. 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 Environmental Health, and subsequent technical revision requested by Alameda County Environmental 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 Environmental 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. Groundwater samples were then collected from six of the eight site wells (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 27, 2006	Groundwater Elevation [b] September 27, 2006
		Depth (feet)	Elevation (feet)		
MW-1	25	19.5 to 24.5	54.5 to 49.5	16.52	62.63
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	15.12	62.46
MW-4	25	14.5 to 24.5	63.6 to 53.6	15.16	62.58
MW-5	20	9 to 19	70.6 to 60.6	16.66	62.70
MW-6	20	9 to 19	69.7 to 59.7	15.71	62.72
MW-7	20	9 to 19	69.6 to 59.6	15.82	62.45
MW-8	20	9 to 19	67.7 to 57.7	13.93	62.46

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 24 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)—those 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 (Water Board, 2004), 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. 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 all six of the wells in which it was tested. Detected concentrations ranged from 330 micrograms per liter (µg/L) (in well MW-8) to 13,000 µg/L (in well MW-1). All of the gasoline concentrations exceeded the 100-µg/L ESL criterion. 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 extends offsite to the north (under Howe Street) and to the south (under W. MacArthur Boulevard).

Figure 5 shows diesel isoconcentration contours for the recent event. Diesel was detected in all six of the wells analyzed, but is of secondary concern relative to gasoline, with concentrations historically at significantly lower levels than gasoline. Diesel concentrations ranged from 260 µg/L (in well MW-8) to 6,200 µg/L (in well MW-1), with all concentrations exceeding the 100-µg/L ESL criterion. The diesel plume footprint is similar to that of the gasoline plume, but somewhat smaller. 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 10 µg/L (in MW-6) to 1,700 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 – June 9, 2006
Hydrocarbons, BTEX, and MTBE [(a)]
240 W. MacArthur Boulevard, Oakland, California

Well	TVHg	TEHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1	13,000	6,200	1,700	76	110	440	*< 13*
MW-2	8,300	1,600	67	4.1	4.6	15.4	64
MW-3	6,100	2,600	190	15	24	59	51
MW-4	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-5	12,000	2,400	580	170	230	980	*<3.6*
MW-6	530	730	10	0.8	4.1	7.5	*< 0.5*
MW-7	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-8	330	260	*< 0.5*	*< 0.5*	*< 0.5*	*< 1.0*	44
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 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 27, 2006
Lead Scavengers and Fuel Oxygenates [(a)]
240 W. MacArthur Boulevard, Oakland, California

Well	EDC	DIPE	TBA
MW-1	*<13*	*<13*	320
MW-2	1.4	0.8	59
MW-3	1.8	1.7	53
MW-5	5.5	*< 3.6*	76
MW-6	11	0.7	46
MW-8	*< 0.5*	*< 0.5*	12
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

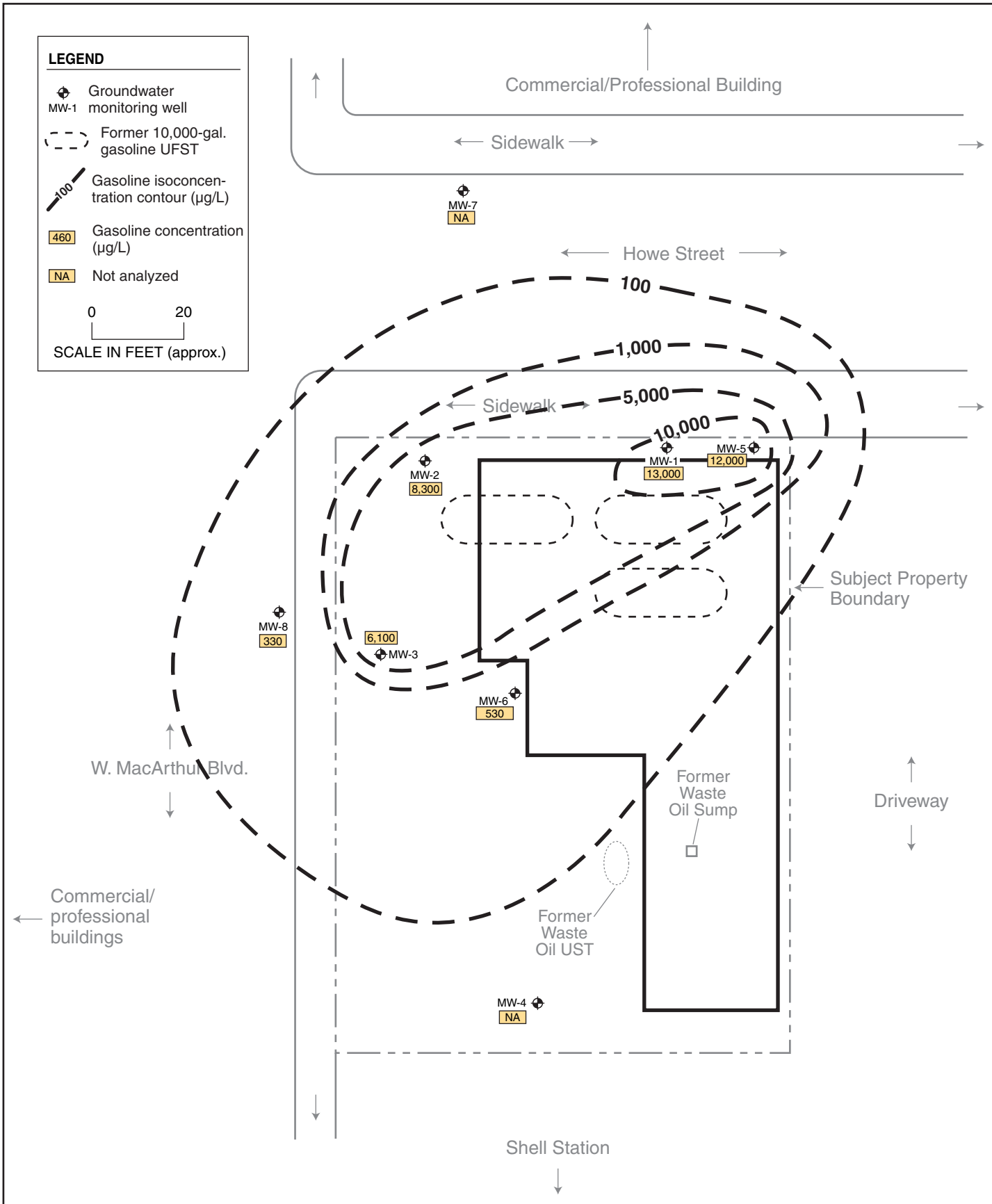
NLP = No level published.

Table includes only detected fuel oxygenates and lead scavengers. 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 44 µg/L (in MW-8) to 64 µg/L (in MW-2). 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 detected this event 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 2006)

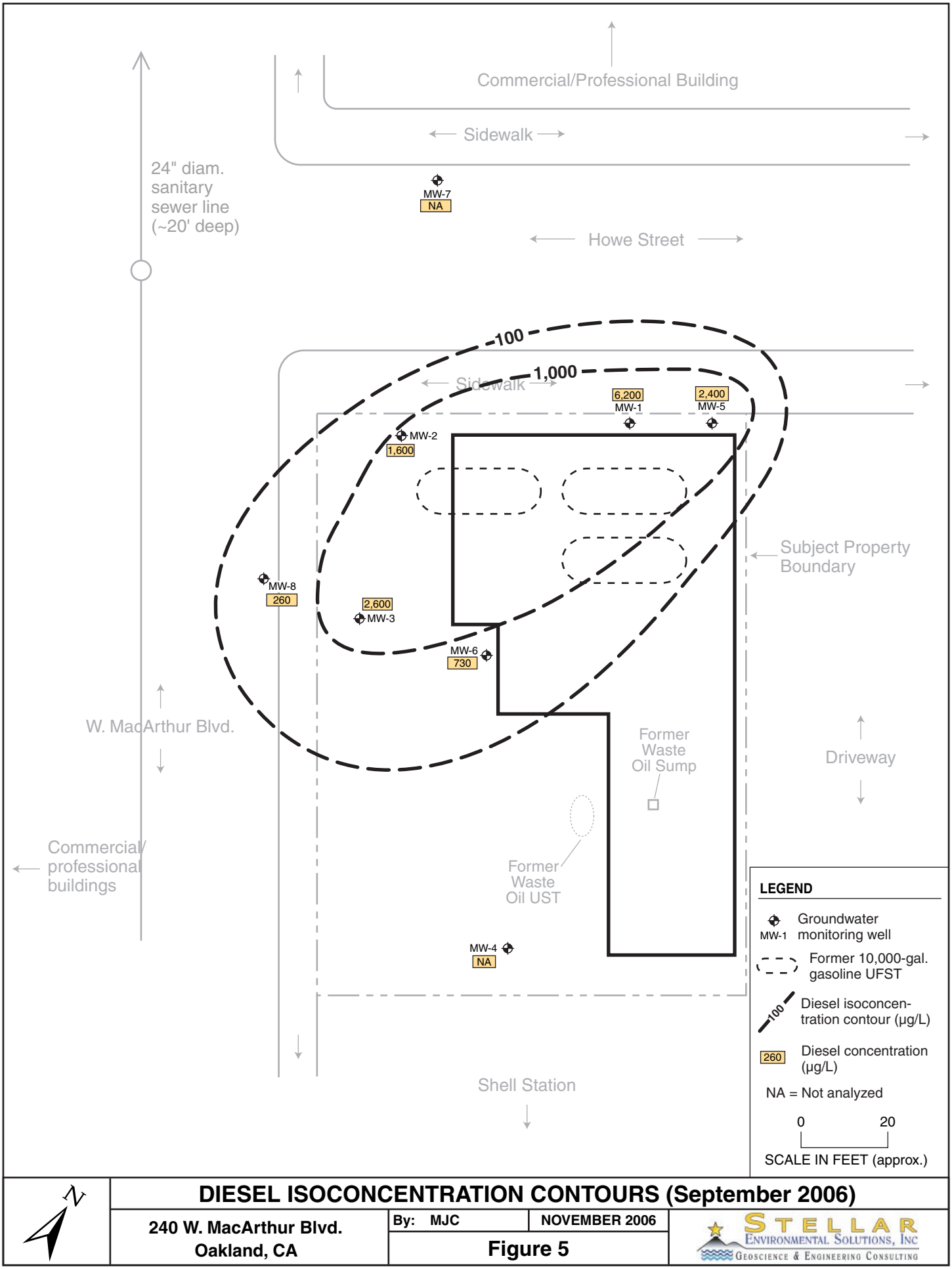
240 W. MacArthur Blvd.
Oakland, CA

By: MJC | SEPTEMBER 2006

Figure 4

STELLAR ENVIRONMENTAL SOLUTIONS, INC
GEOSCIENCE & ENGINEERING CONSULTING

2003-43-138

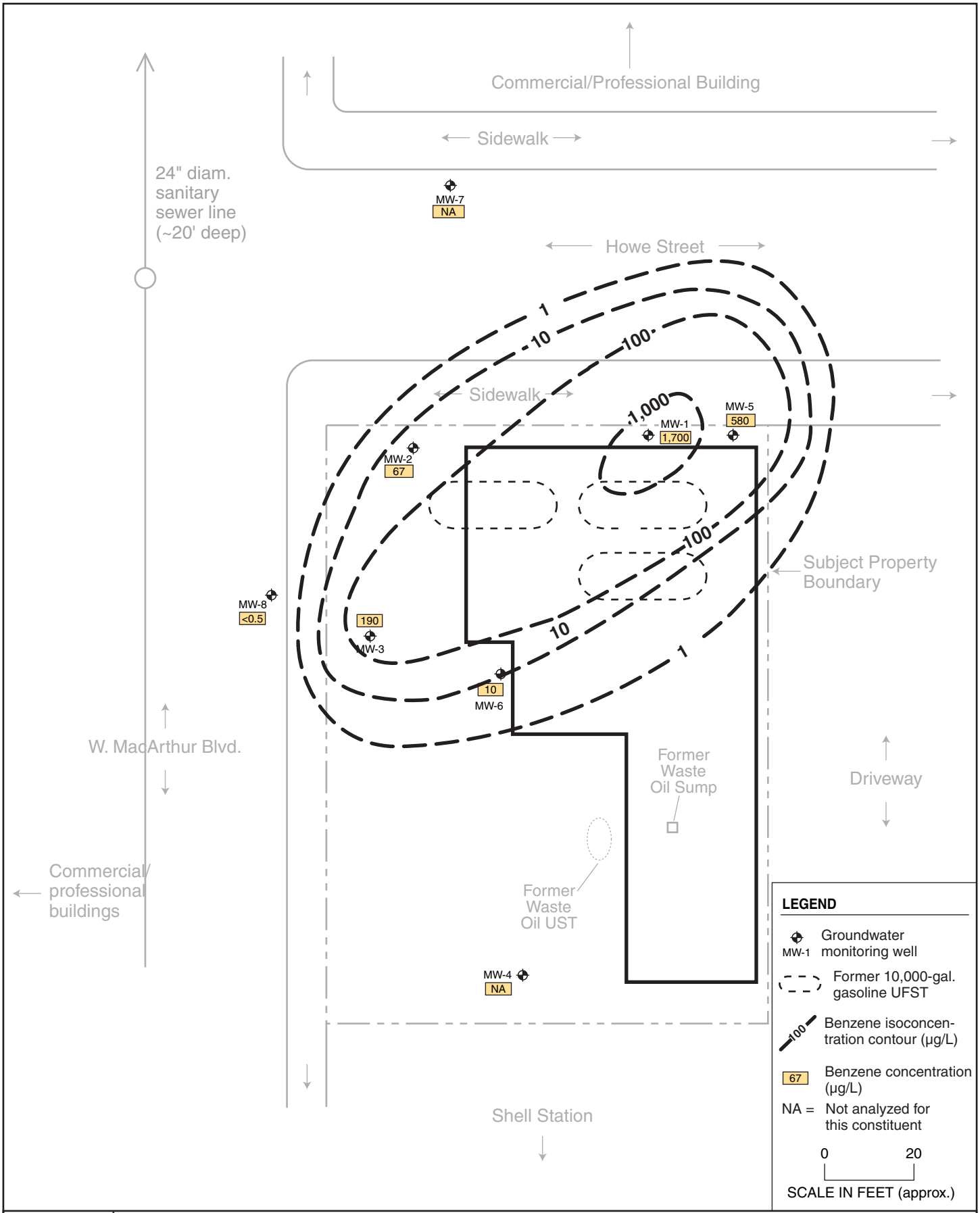


DIESEL ISOCONCENTRATION CONTOURS (September 2006)

240 W. MacArthur Blvd. Oakland, CA	By: MJC	NOVEMBER 2006
	Figure 5	

STELLAR ENVIRONMENTAL SOLUTIONS, INC
GEOSCIENCE & ENGINEERING CONSULTING

2003-43-139



BENZENE ISOCONCENTRATION CONTOURS (September 2006)

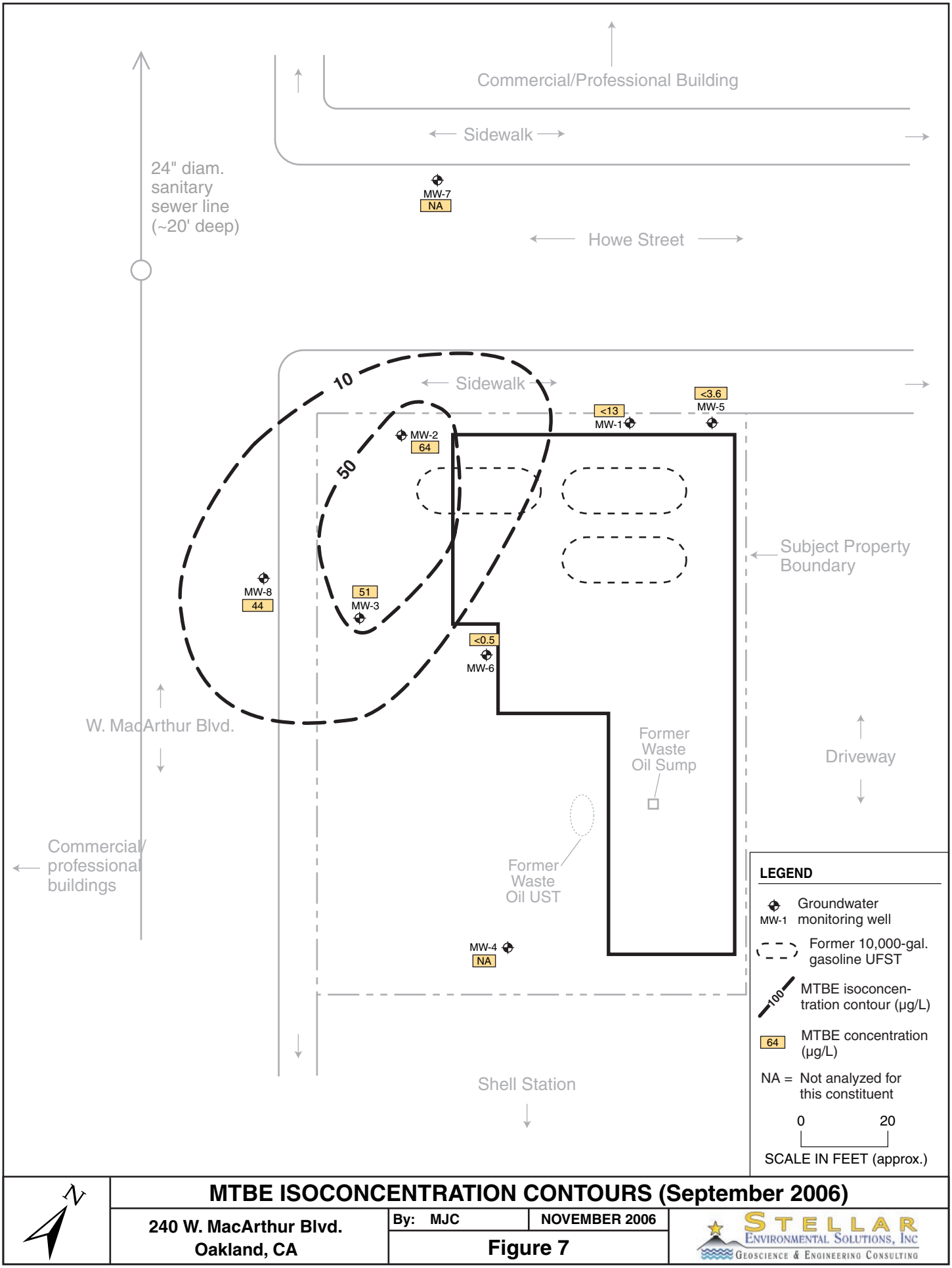
240 W. MacArthur Blvd.
Oakland, CA

By: MJC | NOVEMBER 2006

Figure 6

STELLAR ENVIRONMENTAL SOLUTIONS, INC
GEOSCIENCE & ENGINEERING CONSULTING

2003-43-140



MTBE ISOCONCENTRATION CONTOURS (September 2006)

240 W. MacArthur Blvd.
Oakland, CA

By: MJC | NOVEMBER 2006

Figure 7

STELLAR ENVIRONMENTAL SOLUTIONS, INC
GEOSCIENCE & ENGINEERING CONSULTING

2003-43-141

Lead Scavengers and Fuel Oxygenates

The lead scavenger EDC was detected in four of the six site wells for which lead scavengers were analyzed, at concentrations ranging from 1.4 µg/L (in MW-2) to 11 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 three of the six wells at concentrations ranging from 0.7 µg/L to 1.7 µg/L. TBA was detected in all six of the wells for which it was analyzed at concentrations between 12 µg/L and 320 µg/L. No other fuel oxygenates were detected.

Summary of Groundwater Contamination

Maximum concentrations of gasoline and diesel were detected in wells MW-1 and MW-2, located in the northern area 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 north and west (beneath Howe Street and W. MacArthur Boulevard). The current quarter conditions were generally consistent with recent historical conditions.

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 Environmental Health is the lead regulatory agency.
- A total of 32 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, in an approximately 0.5-foot to 2.5–foot-thick permeable zone, underlain by a stiff low-permeability clay. Local groundwater flow direction ranges between northwest and west, with a relatively flat hydraulic gradient averaging approximately 0.006 ft/ft. Annual fluctuation in water levels is approximately 3 feet and is in response to seasonal precipitation. The groundwater flow direction and gradient in the current event 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 Environmental 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 this contaminant 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 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 Responsible Party submitted to Alameda County Environmental Health a workplan for interim remedial action (focusing on soil vapor extraction to reduce source area contaminant mass). Alameda County Environmental Health provided written concurrence with that workplan, with minor technical revisions, in its March 2006 letter.

PROPOSED ACTIONS

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

- In Spring of 2007, implement the SES-recommended (December 2004) Additional Site Characterization and Interim Remedial Action Workplan approved by Alameda County Environmental Health in March 2006.
- Continue the program of quarterly groundwater sampling and reporting.

- Continue to make required electronic data format uploads to the State of California GeoTracker database, and upload an electronic copy of technical reports to Alameda County Environmental Health's ftp system.
- Continue submitting reimbursement requests under the State of California Petroleum UST Cleanup Fund.

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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

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	9/9/05	12/19/05	3/30/06	06/09/06	9/27/06
Number of drum(s) empty:						
Number of drum(s) 1/4 full:	1	1		1		
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:			1			1
Number of drum(s) full:	4	4	4	5	5	4
Total drum(s) on site:	5	5		6	6	6 2nd count
Are the drum(s) properly labeled?	Yes	Y	Y	Y	Y	Y
Drum ID & Contents:	H_2O	H_2O →	→	→	Purge H_2O	Purge H_2O
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	12/19/05	3/30/06	6/09/06	
Number of drums empty:						
Number of drum(s) 1/4 full:			1			1
Number of drum(s) 3/4 full:	1	~~4~~			1	
Number of drum(s) full:	4	~~4~~ 5	5	6	6	5
Total drum(s) on site:	5	5	6	6	7	7
Are the drum(s) properly labeled?	Yes	Y	Y	Y	Y	Y
Drum ID & Contents:	H_2O	H_2O →	→	→	Purge H_2O →	

LOCATION OF DRUM(S)

Describe location of drum(s): Next to Dumpster

FINAL STATUS

Number of new drum(s) left on site this event		~~2~~	1	0	1	1
Date of inspection:	6/14/05	9/19/05	12/19/05	3/30/06	6/09/06	9/27/06
Drum(s) labelled properly:	Yes	Y	Y	Y	Y	Y
Logged by BTS Field Tech:	MW	MW	PA	SL	SC	SV
Office reviewed by:		9/22/05				

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Stellar @ Oakland Auto Works	PROJECT NUMBER	060927-SC1

EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Myron L Company Ultrameter	602781	09/27/06 0930	pH 7, 4, 10 SpCond 3000 µS/cm	pH → 7.0, 4.0, SpCond	Yes	65.6°F	SC
2100P Turbidimeter	D6030CO-15604	09/27/06 0940			Yes	—	SC
YSI 550A	04B0822AC	09/27/06 0935	DI H_2O	100%	Yes	18.5°C	SC

WELL GAUGING DATA

Project # 060927-SC1 Date 09/27/06 Client Stellar@Oakland Arts Work

Site 240 W. MacArthur Blvd. Oakland, CA

Well ID	Time	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	Notes
(7) MW-1	~~1025~~ 1022	2	No Sheen detected				16.52	23.88		
(5) MW-2	1015	2					16.00	19.91		
(6) MW-3	1018	2					15.12	19.58		
(1) MW-4	0955	2					15.16	20.18		3 VOAs only
(8) MW-5	~~1025~~ 1027	2					16.66	24.16		
(4) MW-6	1012	2					15.71	23.67		
(2) MW-7	1003	2					15.82	24.40		3 VOAs only Tr
(3) MW-8	1010	2					13.93	18.95		Tr

WELLHEAD INSPECTION CHECKLIST

Date 09/27/06 Client Stellar @ Oakland Auto Works

Site Address 240 W. MacArthur Blvd. Oakland, CA

Job Number 060927-SC1 Technician S. Carmack

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							X	
MW-2	X							
MW-3	X							
MW-4	X							
MW-5	X							
MW-6	X							
MW-7	X							
MW-8	X							

NOTES: MW-1 ⇒ 2/2 bolts missing

WELL MONITORING DATA SHEET

Project #: 060927-SC1	Client: Stellar @ Oakland Artworks
Sampler: SC	Date: 09/27/06
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 23.88	Depth to Water (DTW): 16.52
Depth to Free Product: No Sheen detected	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]: 18.00	

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

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

1.2 (Gals.) X (3) 5 = 6.0 ~~3.5~~ 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	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1404	67.6	6.8	1358	71000	1.2	grey cldy, odor
1406	67.5	6.7	1387	71000	2.4	" " "
1408	67.3	6.6	1418	71000	3.6	" " "

Fe^{++} = 1.8 mg/L

Did well dewater? Yes (No) Gallons actually evacuated: 3.6

Sampling Date: 09/27/06 Sampling Time: 1410 Depth to Water:

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

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

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

WELL MONITORING DATA SHEET

Project #: 060927-SC1	Client: Stellar @ Oakland Auto Works
Sampler: SC	Date: 09/27/06
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.91	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]: 16.79	

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

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

0.7 (Gals.) X (3) ~~5~~ = (3.5) ~~7.1~~ 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
1243	68.8	6.8	818	354	0.7	grey, odor
1247	68.9	6.7	818	420	1.4	" "
1250	68.8	6.7	817	499	2.1	" "
					Fe++ => 1.5 mg/L	

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

Sampling Date: 09/27/06 Sampling Time: 1300 Depth to Water: 15.99

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

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

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

WELL MONITORING DATA SHEET

Project #: 060927-SC1	Client: Stellar @ Oakland Auto Works
Sampler: SC	Date: 09/27/06
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.58	Depth to Water (DTW): 15.12
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]: 16.02	

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

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

1 Case Volume	Specified Volumes	Calculated Volume
0.8 (Gals.) X	(SC) 3 5	4.0 2.4 (C) 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 (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1313	70.3	6.9	865	564	0.8	grey / odor
1316	70.2	6.7	871	>1000	1.6	" "
1319	70.3	6.7	875	>1000	2.4	" "
				Fe^{++} => 1.0 mg/L		

Did well dewater? Yes (No) Gallons actually evacuated: 2.4

Sampling Date: 09/27/06 Sampling Time: 1330 Depth to Water: 15.13

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

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

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

WELL MONITORING DATA SHEET

Project #: 060927-SC1	Client: Stellar @ Oakland Auto Works
Sampler: SC	Date: 09/27/06
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 20.18	Depth to Water (DTW): 15.16
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]: 16.17	

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

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

0.9 (Gals.) X @3 5 = 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	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1052	69.2	6.7	694	71000	0.9	clay brownish
1056	68.4	6.3	680	71000	1.8	" "
1101	68.1	6.2	667	71000	2.7	" "
					Fe++ => 0.0 mg/L	

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

Sampling Date: 09/27/06 Sampling Time: 1105 Depth to Water: 16.10

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

Analyzed for: (TVH) TPH-G (10) BTEX (8260) MTBE (TEH) TPH-D (8015) Oxygenates (5) Other: See COC

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

WELL MONITORING DATA SHEET

Project #: 060927-SC1	Client: Stellar @ Oakland Auto Works
Sampler: SC	Date: 09/27/06
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.16	Depth to Water (DTW): 16.66
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]: 18.16	

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

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

1.2 (Gals.) X (3) 5 = (6.0) 7.6 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
1430	67.2	~~6.7~~ 7.0	861	>1000	1.2	gray-black; odo-
1434	67.0	7.0	672	>1000	2.4	" " "
1438	66.8	7.0	723	>1000	3.6	" " "
					Ferr = 72.0 mg/L	

Did well dewater? Yes (No) Gallons actually evacuated: 3.6

Sampling Date: 09/27/06 Sampling Time: 1445 Depth to Water: 18.02

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

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

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

WELL MONITORING DATA SHEET

Project #: 060927-SC1	Client: Stellar @ Oakland Auto Works
Sampler: SC	Date: 09/27/06
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 23.67	Depth to Water (DTW): 15.71
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]: 17.31	

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

Sampling Method: Bailer / X Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

1.3 (Gals.) X (3) ~~3~~ 5 = (3) ~~3.9~~ 6.5 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	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1226	69.9	6.8	1038	233	1.3	cldy lt. brown odor
1230	69.7	6.7	1046	988	2.6	cloudier odor
Well dewatered @ 2.7 gallons				(3) ~~988~~		
1345	70.3	7.1	1042	198	~~2.7~~	cldy lt. brown odor
					ftc => 1.0 mg/L	

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

Sampling Date: 09/27/06 — Sampling Time: 1350 — Depth to Water: (3) ~~1700~~ 1668

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

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

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) ~~4.2~~ 5.18	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

WELL MONITORING DATA SHEET

Project #: 060927-SC1	Client: Stellar @ Oakland Auto Works
Sampler: SC	Date: 09/27/06
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.40	Depth to Water (DTW): 15.82
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]: 17.54	

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

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

1.4 (Gals.) X (3) 5 = ~~4.2~~ 7.0 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
1124	69.1	6.8	875	>1000	1.4	cldy brownish
1126	69.2	6.7	870	>1000	2.8	" "
1128	69.0	6.7	868	>1000	4.2	" "
				Fe tot 0.0 mg/L		

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

Sampling Date: 09/27/06 Sampling Time: 1175 Depth to Water: 16.71

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

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

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

WELL MONITORING DATA SHEET

Project #: 060927-SC1	Client: Stellar @ Oakland Auto Works
Sampler: SC	Date: 09/27/06
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 18.95	Depth to Water (DTW): 13.93
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]: 14.94	

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

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

0.9 (Gals.) X (SC) ~~3~~ 5 = (SC) ~~2.7~~ 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	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
~~1158~~ 1202 (SC)	69.8	7.1	477	>1000	0.9	clay brown
1202	69.7	6.9	486	>1000	1.8	" "
1205	69.8	6.8	494	>1000	2.7	" "
				Fe ⁺⁺ => 0.0 mg/L		

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

Sampling Date: 09/27/06 Sampling Time: 1210 Depth to Water: 14.50

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

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

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

APPENDIX B

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

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/27/06
Units:	ug/L	Received:	09/29/06

Field ID:	MW-1	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	117999
Lab ID:	189788-001	Analyzed:	10/03/06

Analyte	Result	RL
Gasoline C7-C12	13,000	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	127	69-137
Bromofluorobenzene (FID)	130	80-133

Field ID:	MW-2	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	117999
Lab ID:	189788-002	Analyzed:	10/03/06

Analyte	Result	RL
Gasoline C7-C12	8,300	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	133	69-137
Bromofluorobenzene (FID)	124	80-133

Field ID:	MW-3	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	117999
Lab ID:	189788-003	Analyzed:	10/03/06

Analyte	Result	RL
Gasoline C7-C12	6,100	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	140 *	69-137
Bromofluorobenzene (FID)	136 *	80-133

Field ID:	MW-4	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	117999
Lab ID:	189788-004	Analyzed:	10/03/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	69-137
Bromofluorobenzene (FID)	89	80-133

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

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/27/06
Units:	ug/L	Received:	09/29/06

Field ID:	MW-5	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	118075
Lab ID:	189788-005	Analyzed:	10/04/06

Analyte	Result	RL
Gasoline C7-C12	12,000	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	69-137
Bromofluorobenzene (FID)	101	80-133

Field ID:	MW-6	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	117999
Lab ID:	189788-006	Analyzed:	10/03/06

Analyte	Result	RL
Gasoline C7-C12	530	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	69-137
Bromofluorobenzene (FID)	110	80-133

Field ID:	MW-7	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	118075
Lab ID:	189788-007	Analyzed:	10/04/06

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	69-137
Bromofluorobenzene (FID)	75 *	80-133

Field ID:	MW-8	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	117999
Lab ID:	189788-008	Analyzed:	10/03/06

Analyte	Result	RL
Gasoline C7-C12	330	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	69-137
Bromofluorobenzene (FID)	95	80-133

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

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/27/06
Units:	ug/L	Received:	09/29/06

Type:	BLANK	Batch#:	117999
Lab ID:	QC358450	Analyzed:	10/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	69-137
Bromofluorobenzene (FID)	102	80-133

Type:	BLANK	Batch#:	118075
Lab ID:	QC358773	Analyzed:	10/04/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	69-137
Bromofluorobenzene (FID)	83	80-133

*= 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 #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC358452	Batch#:	117999
Matrix:	Water	Analyzed:	10/02/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,865	93	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	69-137
Bromofluorobenzene (FID)	111	80-133

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	117999
MSS Lab ID:	189786-003	Sampled:	09/28/06
Matrix:	Water	Received:	09/29/06
Units:	ug/L	Analyzed:	10/03/06
Diln Fac:	1.000		

Type: MS Lab ID: QC358539

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	981.2	2,000	2,740	88	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	69-137
Bromofluorobenzene (FID)	89	80-133

Type: MSD Lab ID: QC358540

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,706	86	80-120	1	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	69-137
Bromofluorobenzene (FID)	83	80-133

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC358775	Batch#:	118075
Matrix:	Water	Analyzed:	10/03/06
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,052	103	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	118	69-137
Bromofluorobenzene (FID)	101	80-133

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	118075
MSS Lab ID:	189816-001	Sampled:	10/02/06
Matrix:	Water	Received:	10/03/06
Units:	ug/L	Analyzed:	10/04/06
Diln Fac:	1.000		

Type: MS Lab ID: QC358776

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<27.03	2,000	1,883	94	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	69-137
Bromofluorobenzene (FID)	89	80-133

Type: MSD Lab ID: QC358777

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,938	97	80-120	3	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	69-137
Bromofluorobenzene (FID)	94	80-133

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/27/06
Units:	ug/L	Received:	09/29/06
Diln Fac:	1.000	Prepared:	10/03/06
Batch#:	118072		

Field ID: MW-1 Lab ID: 189788-001
Type: SAMPLE Analyzed: 10/06/06

Analyte	Result	RL
Diesel C10-C24	6,200 H L Y	50

Surrogate	%REC	Limits
Hexacosane	111	65-130

Field ID: MW-2 Lab ID: 189788-002
Type: SAMPLE Analyzed: 10/06/06

Analyte	Result	RL
Diesel C10-C24	1,600 H L Y	50

Surrogate	%REC	Limits
Hexacosane	109	65-130

Field ID: MW-3 Lab ID: 189788-003
Type: SAMPLE Analyzed: 10/06/06

Analyte	Result	RL
Diesel C10-C24	2,600 L Y	50

Surrogate	%REC	Limits
Hexacosane	122	65-130

Field ID: MW-5 Lab ID: 189788-005
Type: SAMPLE Analyzed: 10/08/06

Analyte	Result	RL
Diesel C10-C24	2,400 L Y	50

Surrogate	%REC	Limits
Hexacosane	79	65-130

H= Heavier hydrocarbons contributed to the quantitation
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 #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	09/27/06
Units:	ug/L	Received:	09/29/06
Diln Fac:	1.000	Prepared:	10/03/06
Batch#:	118072		

Field ID:	MW-6	Lab ID:	189788-006
Type:	SAMPLE	Analyzed:	10/08/06

Analyte	Result	RL
Diesel C10-C24	730 Y	50

Surrogate	%REC	Limits
Hexacosane	75	65-130

Field ID:	MW-8	Lab ID:	189788-008
Type:	SAMPLE	Analyzed:	10/06/06

Analyte	Result	RL
Diesel C10-C24	260 Y	50

Surrogate	%REC	Limits
Hexacosane	106	65-130

Type:	BLANK	Analyzed:	10/05/06
Lab ID:	QC358758	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	97	65-130

H= Heavier hydrocarbons contributed to the quantitation
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 #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	118072
Units:	ug/L	Prepared:	10/03/06
Diln Fac:	1.000	Analyzed:	10/05/06

Type: BS
Lab ID: QC358759
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,656	106	61-133

Surrogate	%REC	Limits
Hexacosane	118	65-130

Type: BSD
Lab ID: QC358760
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,139	86	61-133	22	31

Surrogate	%REC	Limits
Hexacosane	98	65-130

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-1	Batch#:	118272
Lab ID:	189788-001	Sampled:	09/27/06
Matrix:	Water	Received:	09/29/06
Units:	ug/L	Analyzed:	10/10/06
Diln Fac:	25.00		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	320	250
MTBE	ND	13
Isopropyl Ether (DIPE)	ND	13
Ethyl tert-Butyl Ether (ETBE)	ND	13
1,2-Dichloroethane	ND	13
Benzene	1,700	13
Methyl tert-Amyl Ether (TAME)	ND	13
Toluene	76	13
1,2-Dibromoethane	ND	13
Ethylbenzene	110	13
m,p-Xylenes	240	13
o-Xylene	200	13

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	98	80-130
Toluene-d8	99	80-120
Bromofluorobenzene	111	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	118272
Lab ID:	189788-002	Sampled:	09/27/06
Matrix:	Water	Received:	09/29/06
Units:	ug/L	Analyzed:	10/10/06
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	59	10
MTBE	64	0.5
Isopropyl Ether (DIPE)	0.8	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	1.3	0.5
Benzene	67	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	4.1	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	4.6	0.5
m,p-Xylenes	11	0.5
o-Xylene	4.4	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	102	80-130
Toluene-d8	98	80-120
Bromofluorobenzene	111	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-3	Batch#:	118272
Lab ID:	189788-003	Sampled:	09/27/06
Matrix:	Water	Received:	09/29/06
Units:	ug/L	Analyzed:	10/10/06
Diln Fac:	3.333		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	53	33
MTBE	51	1.7
Isopropyl Ether (DIPE)	1.7	1.7
Ethyl tert-Butyl Ether (ETBE)	ND	1.7
1,2-Dichloroethane	1.8	1.7
Benzene	190	1.7
Methyl tert-Amyl Ether (TAME)	ND	1.7
Toluene	15	1.7
1,2-Dibromoethane	ND	1.7
Ethylbenzene	24	1.7
m,p-Xylenes	44	1.7
o-Xylene	15	1.7

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	98	80-130
Toluene-d8	98	80-120
Bromofluorobenzene	110	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-5	Batch#:	118272
Lab ID:	189788-005	Sampled:	09/27/06
Matrix:	Water	Received:	09/29/06
Units:	ug/L	Analyzed:	10/10/06
Diln Fac:	7.143		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	76	71
MTBE	ND	3.6
Isopropyl Ether (DIPE)	ND	3.6
Ethyl tert-Butyl Ether (ETBE)	ND	3.6
1,2-Dichloroethane	5.5	3.6
Benzene	580	3.6
Methyl tert-Amyl Ether (TAME)	ND	3.6
Toluene	170	3.6
1,2-Dibromoethane	ND	3.6
Ethylbenzene	230	3.6
m,p-Xylenes	600	3.6
o-Xylene	380	3.6

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	97	80-130
Toluene-d8	95	80-120
Bromofluorobenzene	106	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	118272
Lab ID:	189788-006	Sampled:	09/27/06
Matrix:	Water	Received:	09/29/06
Units:	ug/L	Analyzed:	10/10/06
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	46	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	0.7	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	11	0.5
Benzene	10	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	0.8	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	4.1	0.5
m,p-Xylenes	6.5	0.5
o-Xylene	1.0	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	99	80-130
Toluene-d8	99	80-120
Bromofluorobenzene	113	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-8	Batch#:	118272
Lab ID:	189788-008	Sampled:	09/27/06
Matrix:	Water	Received:	09/29/06
Units:	ug/L	Analyzed:	10/10/06
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	12	10
MTBE	44	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	80-120
1,2-Dichloroethane-d4	97	80-130
Toluene-d8	98	80-120
Bromofluorobenzene	117	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	118272
Units:	ug/L	Analyzed:	10/10/06
Diln Fac:	1.000		

Type: BS Lab ID: QC359621

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	127.1	102	64-141
MTBE	25.00	24.37	97	72-120
Isopropyl Ether (DIPE)	25.00	21.44	86	68-123
Ethyl tert-Butyl Ether (ETBE)	25.00	27.86	111	77-129
1,2-Dichloroethane	25.00	24.43	98	77-120
Benzene	25.00	26.13	105	80-120
Methyl tert-Amyl Ether (TAME)	25.00	23.79	95	77-120
Toluene	25.00	25.99	104	80-120
1,2-Dibromoethane	25.00	24.65	99	80-120
Ethylbenzene	25.00	26.79	107	80-120
m,p-Xylenes	50.00	52.56	105	80-121
o-Xylene	25.00	26.74	107	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	100	80-130
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-122

Type: BSD Lab ID: QC359622

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	121.3	97	64-141	5	22
MTBE	25.00	24.01	96	72-120	1	20
Isopropyl Ether (DIPE)	25.00	19.73	79	68-123	8	20
Ethyl tert-Butyl Ether (ETBE)	25.00	25.91	104	77-129	7	20
1,2-Dichloroethane	25.00	23.52	94	77-120	4	20
Benzene	25.00	23.88	96	80-120	9	20
Methyl tert-Amyl Ether (TAME)	25.00	22.35	89	77-120	6	20
Toluene	25.00	23.45	94	80-120	10	20
1,2-Dibromoethane	25.00	23.46	94	80-120	5	20
Ethylbenzene	25.00	24.65	99	80-120	8	20
m,p-Xylenes	50.00	48.32	97	80-121	8	20
o-Xylene	25.00	25.28	101	80-120	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	100	80-130
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC359623	Batch#:	118272
Matrix:	Water	Analyzed:	10/10/06
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	100	80-120
1,2-Dichloroethane-d4	102	80-130
Toluene-d8	99	80-120
Bromofluorobenzene	114	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC359624	Batch#:	118272
Matrix:	Water	Analyzed:	10/10/06
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	102	80-120
1,2-Dichloroethane-d4	103	80-130
Toluene-d8	100	80-120
Bromofluorobenzene	115	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

BTXE & Oxygenates

Lab #:	189788	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	118272
MSS Lab ID:	189782-007	Sampled:	09/28/06
Matrix:	Water	Received:	09/29/06
Units:	ug/L	Analyzed:	10/10/06
Diln Fac:	10.00		

Type: MS Lab ID: QC359644

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<16.01	1,250	1,212	97	68-148
MTBE	<0.7387	250.0	244.9	98	75-120
Isopropyl Ether (DIPE)	<0.6972	250.0	205.7	82	74-125
Ethyl tert-Butyl Ether (ETBE)	<0.4508	250.0	274.0	110	80-131
1,2-Dichloroethane	5.551	250.0	247.4	97	80-124
Benzene	<0.4131	250.0	255.1	102	80-122
Methyl tert-Amyl Ether (TAME)	<1.297	250.0	239.6	96	78-120
Toluene	<0.8342	250.0	255.2	102	80-120
1,2-Dibromoethane	<0.6100	250.0	242.4	97	80-120
Ethylbenzene	<0.7640	250.0	262.3	105	80-121
m,p-Xylenes	<2.248	500.0	493.7	99	80-121
o-Xylene	4.436	250.0	253.9	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	104	80-130
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-122

Type: MSD Lab ID: QC359645

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	1,250	1,266	101	68-148	4	23
MTBE	250.0	223.4	89	75-120	9	20
Isopropyl Ether (DIPE)	250.0	207.5	83	74-125	1	20
Ethyl tert-Butyl Ether (ETBE)	250.0	281.7	113	80-131	3	20
1,2-Dichloroethane	250.0	243.8	95	80-124	1	20
Benzene	250.0	248.1	99	80-122	3	20
Methyl tert-Amyl Ether (TAME)	250.0	236.4	95	78-120	1	20
Toluene	250.0	242.5	97	80-120	5	20
1,2-Dibromoethane	250.0	240.0	96	80-120	1	20
Ethylbenzene	250.0	255.7	102	80-121	3	20
m,p-Xylenes	500.0	501.4	100	80-121	2	20
o-Xylene	250.0	259.4	102	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	102	80-130
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-122

RPD= Relative Percent Difference

Chain of Custody Record

Lab job no. 189788
Date 09/27/06
Page 1 of 1

Laboratory Curtis and Tompkins, Ltd.
Address 2323 Fifth Street, Berkeley, California 94710, 510-486-0900
Project Owner Mr. Glen Poy-Wing
Site Address 240 W. MacArthur Blvd., Oakland, California
Project Name Oakland Auto Works
Project Number 2003-43

Method of Shipment Hand Delivery
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	TVH - Gas (8015m)	TEPH-D (8015m)	BTEX, MTBE, EDB, EDC (8260B)	Oxygenates (8260B)	Remarks
-1 MW-1	23.88	09/27/06	1410	H_2O	3 HCl VOAs, 2 NP Ambers	yes	HCl	N	5	X	X	X	X	
-2 MW-2	19.91		1300		" " "	yes			5	X	X	X	X	
-3 MW-3	19.58		1330		3 HCl VOAs, 2 NP Ambers	yes			5	X	X	X	X	
-4 MW-4	20.18		1105		3 HCl VOAs	yes			3	X	X	X	X	
-5 MW-5	24.16		1445		3 VOAs, 2 NP Ambers	yes			5	X	X	X	X	
-6 MW-6	23.67		1350		3 VOAs, 2 NP Ambers	yes			5	X	X	X	X	
-7 MW-7	24.40		1135		3 HCl VOAs	yes			3	X	X	X	X	
-8 MW-8	18.95		1210		3 VOAs, 2 NP Ambers	yes			5	X	X	X	X	

Relinquished by	Date	Received by	Date	Relinquished by	Date	Received by	Date
Signature	9/27/06	Signature	9/27/06	Signature	9/27/06	Signature	9/29/06
Printed Steven J Carmack	Time 1715	Printed KEN SMITH	Time 175	Printed KEN SMITH	Time 1610	Printed Rick Grams	Time 1610
Company BlaineTech Service		Company BTS		Company BTS		Company CET	

Turnaround Time: 5 Day TAT
Comments:

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

2000-00-01

BTS #060927-SC1

intact cold RG

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

Well Purged?	Sampling Event No.	Date Sampled	TVH-g	TEH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-1									
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
Yes	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*
Yes	29	Dec-05	4,300	3,000	500	22	72	228	5.5
Yes	30	Mar-06	11,000	3,000	340	45	89	630	4.3
Yes	31	Jun-06	21,000	8,500	1,600	160	170	1,000	*< 2.5*
Yes	32	Sep-06	13,000	6,200	1,700	76	110	440	*< 13*

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

Well Purged?	Sampling Event No.	Date Sampled	TVH-g	TEH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-2									
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	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
Yes	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
Yes	29	Dec-05	1,300	800	4.9	0.6	0.7	0.8	74
Yes	30	Mar-06	1,300	400	3.2	*< 0.7*	*< 0.7*	*< 1.4*	120
Yes	31	Jun-06	1,400	1,200	33.0	1.3	3.5	*<1.6*	84
Yes	32	Sep-06	8,300	1,600	67.0	4.1	4.6	15.4	64

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

Well Purged?	Sampling Event No.	Date Sampled	TVH-g	TEH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-3									
Yes	1	Aug-97	8,500	*< 1,000*	450	30	53	106	*NA*
Yes	2	Dec-97	5,200	*NA*	180	6	5	9.3	*NA*
Yes	3	Mar-98	1,000	*NA*	6	*< 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
Yes	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	10	3.7	76
Yes	27	Jun-05	4,200	1,800	49	4.5	23	16	66
Yes	28	Sep-05	5,000	950	60	3.1	12	26	59
Yes	29	Dec-05	3,200	1,800	29	1.3	6.6	5.6	80
Yes	30	Mar-06	4,100	1,200	24	1.1	8.5	3.4	99
Yes	31	Jun-06	4,000	1,400	89.0	8.4	14.0	16.7	75
Yes	32	Sep-06	6,100	2,600	190	15.0	24.0	59.0	51

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

Well Purged?	Sampling Event No.	Date Sampled	TVH-g	TEH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-4									
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*
Yes	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*
Yes	29	Dec-05	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	30	Mar-06	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	31	Jun-06	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	32	Sep-06	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

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

Well Purged?	Sampling Event No.	Date Sampled	TVH-g	TEH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-5									
(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*
Yes	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*
Yes	29	Dec-05	9,600	3,600	270	80	110	710	*< 1.7*
Yes	30	Mar-06	9,800	5,100	240	47	97	590	*< 2.0*
Yes	31	Jun-06	28,000	4,900	920.0	250.0	350.0	1,480	*< 2.0*
Yes	32	Sep-06	12,000	2,400	580	170	230	980	*< 3.6*

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

Well Purged?	Sampling Event No.	Date Sampled	TVH-g	TEH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-6									
(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
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	23	58	*< 0.5*
Yes	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	6.6	13	*< 0.5*
Yes	29	Dec-05	240	890	3.6	*< 0.5*	0.7	2.4	0.5
Yes	30	Mar-06	530	950	8.3	*< 0.5*	4.0	2.1	0.6
Yes	31	Jun-06	460	1,300	8.3	*< 0.5*	1.4	2.6	*< 0.5*
Yes	32	Sep-06	530	730	10.0	0.8	4.1	7.5	*< 0.5*

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

Well Purged?	Sampling Event No.	Date Sampled	TVH-g	TEH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-7									
(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*
Yes	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*
Yes	29	Dec-05	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	30	Mar-06	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	31	Jun-06	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Yes	32	Sep-06	*< 50*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

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

Well Purged?	Sampling Event No.	Date Sampled	TVH-g	TEH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
MW-8									
(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	Aug-03	190	*< 50*	*< 0.5*	*< 0.5*	*< 0.5*	0.6	*< 0.5*
Yes	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
Yes	29	Dec-05	65	57	*< 0.5*	*< 0.5*	*< 0.5*	*< 1.0*	29
Yes	30	Mar-06	140	120	*< 0.5*	*< 0.5*	*< 0.5*	*0.6*	24
Yes	31	Jun-06	710	170	*< 0.5*	*< 0.5*	*< 0.5*	*< 1.0*	81
Yes	32	Sep-06	330	260	*< 0.5*	*< 0.5*	*< 0.5*	*< 0.5*	44

Notes:

(a) Data not available to Ses as to whether the samples were collected "post-purge" or before 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 the 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*
	29	Dec-05	*< 1.3*	*< 1.3*	*NA*	*NA*	*NA*	100	*< 3.6*	*NA*	*NA*	*NA*	*NA*	*NA*
	30	Mar-06	*< 2.0*	*< 2.0*	*NA*	*NA*	*NA*	83	*< 2.0*	*NA*	*NA*	*NA*	*NA*	*NA*
	31	Jun-06	*< 2.5*	*< 2.5*	*NA*	*NA*	*NA*	220	*< 2.5*	*NA*	*NA*	*NA*	*NA*	*NA*
	32	Sep-06	*< 13*	*< 13*	*NA*	*NA*	*NA*	320	*< 13*	*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
	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*
	29	Dec-05	*< 0.50*	*< 0.50*	*NA*	*NA*	*NA*	54	1.0	*NA*	*NA*	*NA*	*NA*	*NA*
	30	Mar-06	*< 0.7*	*< 0.7*	*NA*	*NA*	*NA*	56	1.2	*NA*	*NA*	*NA*	*NA*	*NA*
	31	Jun-06	*< 0.8*	1.4	*NA*	*NA*	*NA*	56	*< 0.8*	*NA*	*NA*	*NA*	*NA*	*NA*
	32	Sep-06	*< 0.5*	1.3	*NA*	*NA*	*NA*	59	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*
	29	Dec-05	*< 0.7*	*< 0.7*	*NA*	*NA*	*NA*	67	1.2	*NA*	*NA*	*NA*	*NA*	*NA*
	30	Mar-06	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	29	1.0	*NA*	*NA*	*NA*	*NA*	*NA*
	31	Jun-06	*< 0.5*	*< 0.5*	*NA*	*NA*	*NA*	52	2.2	*NA*	*NA*	*NA*	*NA*	*NA*
	32	Sep-06	*<1.7*	1.8	*NA*	*NA*	*NA*	53	1.7	*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
	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*
	29	Dec-05	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	30	Mar-06	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	31	Jun-06	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	32	Sep-06	*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*
	29	Dec-05	*< 1.7*	*< 1.7*	*NA*	*NA*	*NA*	*< 33*	*< 1.7*	*NA*	*NA*	*NA*	*NA*	*NA*
	30	Mar-06	*< 2.0*	*< 2.0*	*NA*	*NA*	*NA*	*< 2.0*	*< 2.0*	*NA*	*NA*	*NA*	*NA*	*NA*
	31	Jun-06	*< 2.0*	10	*NA*	*NA*	*NA*	61	*< 2.0*	*NA*	*NA*	*NA*	*NA*	*NA*
	32	Sep-06	*< 3.6*	5.5	*NA*	*NA*	*NA*	76	*< 3.6*	*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*	2.2	*< 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*
	29	Dec-05	*< 0.50*	13	*NA*	*NA*	*NA*	30	0.9	*NA*	*NA*	*NA*	*NA*	*NA*
	30	Mar-06	*< 0.50*	15	*NA*	*NA*	*NA*	19	0.6	*NA*	*NA*	*NA*	*NA*	*NA*
	31	Jun-06	*< 0.50*	28	*NA*	*NA*	*NA*	53	1.3	*NA*	*NA*	*NA*	*NA*	*NA*
	32	Sep-06	*< 0.50*	11	*NA*	*NA*	*NA*	46	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*
	29	Dec-05	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	30	Mar-06	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	31	Jun-06	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
	32	Sep-06	*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*	*< 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*
	29	Dec-05	*< 0.50*	*< 0.50*	*NA*	*NA*	*NA*	27	*< 0.50*	*NA*	*NA*	*NA*	*NA*	*NA*
	30	Mar-06	*< 0.50*	*< 0.50*	*NA*	*NA*	*NA*	17	0.6	*NA*	*NA*	*NA*	*NA*	*NA*
	31	Jun-06	*< 0.50*	*< 0.50*	*NA*	*NA*	*NA*	20	0.9	*NA*	*NA*	*NA*	*NA*	*NA*
	32	Sep-06	*< 0.50*	*< 0.50*	*NA*	*NA*	*NA*	12	*< 0.50*	*NA*	*NA*	*NA*	*NA*	*NA*

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

DCE = Dichloroethylene

TCE = Trichloroethyene

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.