THIRD QUARTER 2007 GROUNDWATER MONITORING REPORT

2836 UNION STREET
OAKLAND, CALIFORNIA

Prepared for:

THE ESTATE OF LAWRENCE WADLER
2525 MANDELA PARKWAY
OAKLAND, CA 94607

July 2007

STELLAR
ENVIRONMENTAL SOLUTIONS, INC.
GEOSCIENCE & ENGINEERING CONSULTING

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OAKLAND, CA 94607

Prepared by:

STELLAR ENVIRONMENTAL SOLUTIONS, INC.
2198 SIXTH STREET, SUITE 201
BERKELEY, CALIFORNIA 94710

July 23, 2007

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

July 23, 2007

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

Subject: Third Quarter 2007 Groundwater Monitoring Report
Former Modern Mail Service, 2836 Union Street, Oakland, California
Alameda County Environmental Health Department Fuel Leak Case No. RO2901

Dear Mr. Chan:

On behalf of the property owner and "Responsible Party" (Estate of Lawrence Wadler), Stellar Environmental Solutions, Inc. (SES) is submitting this Third Quarter 2007 Groundwater Monitoring Report for the former Modern Mail Service Facility at 2836 Union Street, Oakland, California. This report documents the Q3-2007 groundwater monitoring and sampling event of July 2007 related to petroleum contamination from a former underground fuel storage tank. This is the 4th consecutive quarterly groundwater monitoring event conducted at this site. The report has been uploaded to Alameda County Environmental Health and to the State Water Resources Control Board's GeoTracker system.

In our professional opinion, the recent installation of ten monitoring wells to conduct quarterly groundwater monitoring is the appropriate action to further evaluate the magnitude and stability of the contaminant plume over time, to determine whether additional corrective action might be warranted, and if site closure criteria can be met.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report are true and correct to the best of my knowledge. If you have any questions regarding this report, please contact us at (510) 644-3123.

Sincerely,

Henry Pietropaoli, R.G., R.E.A.
Project Manager

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

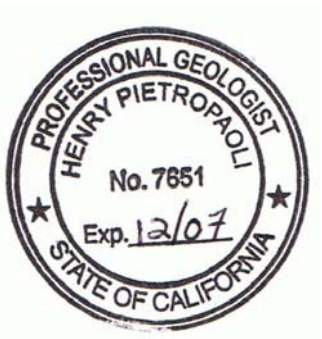

TABLE OF CONTENTS

TABLES AND FIGURES

1.0 INTRODUCTION

PROJECT BACKGROUND

Stellar Environmental Solutions, Inc. (SES) was contracted by Mr. Lawrence Wadler (property owner currently referred to as the Estate of Lawrence Wadler) to conduct corrective actions related to soil and groundwater contamination associated with a 10,000-gallon underground fuel storage tank (UFST) at 2836 Union Street in Oakland, California. A list of all known environmental reports is included in Section 6.0. This report discusses the third quarter groundwater monitoring event conducted on July 12, 2007. Figure 1 shows the site location. Figure 2 shows the site plan with the locations of groundwater wells, borings, and the former UFST.

SITE DESCRIPTION AND HISTORY

The approximately 7,200-square foot rectangular subject property is developed with one approximately 1,500-square foot two-story building. A narrow driveway borders the building to the north, and the rear of the property is undeveloped (paved). Adjacent uses include:

- A residence (to the north);
- A paved parking area (to the east);
- A residence (to the south); and
- A sidewalk, then Union Street, then an auto body repair facility (to the west).

The property operated as an express courier facility (Modern Mail Services, Inc.) between 1951 and 2003. One 10,000-gallon gasoline UFST was installed in the late 1970s. The UFST operated under Alameda County Environmental Health permit (permit No. STID 4065) until it was removed in 1998. The tank closure report was submitted to the Oakland Fire Department (Golden Gate Tank Removal, 1998).

An initial site characterization conducted by SES in November 2005, which included the advancement of four borings, revealed gasoline and associated aromatic hydrocarbons at elevated levels in both soil and groundwater. That investigation was summarized in a technical report (SES, 2005b).

3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096

1000 ft Scale: 1 : 43,750 Detail: 12-2 Datum: WGS84

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

2836 Union Street
Oakland, CA

By: MJC | NOVEMBER 2005

Figure 1

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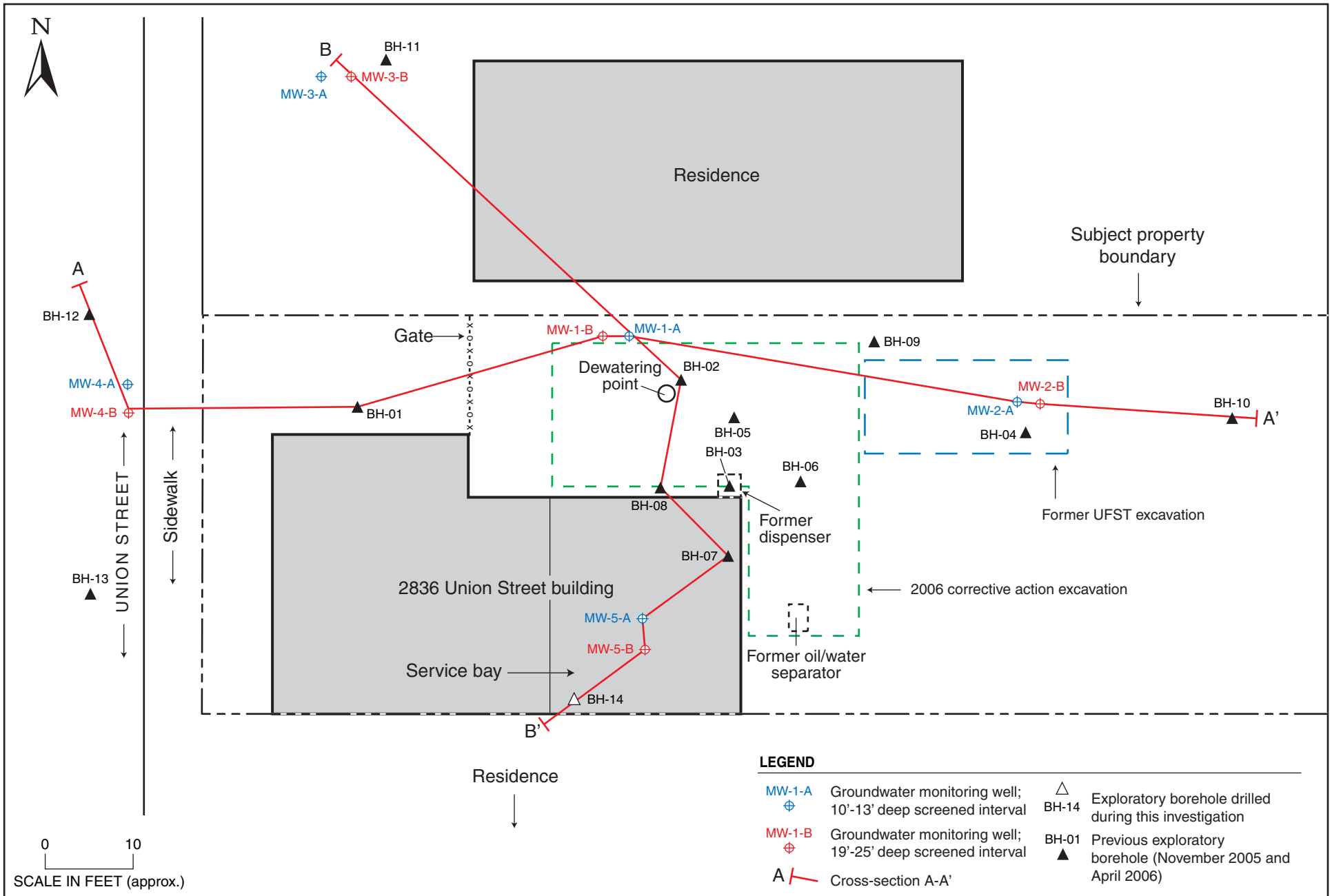
2005-65-01



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SITE PLAN SHOWING LOCATIONS OF SOIL BORINGS

2836 Union Street, Oakland, CA

Figure 2

by: MJC | NOVEMBER 2006

2005-65-47

Additional site investigation in April 2006 involved the advancing of nine exploratory boreholes to determine the areal and vertical extent of soil and groundwater contamination. Site data indicated the presence of petroleum hydrocarbons in soil and groundwater warranting groundwater monitoring and the removal of the remaining (accessible) contaminated soils by excavation, as an interim corrective action. That investigation is summarized in a technical report (SES, 2006b).

A corrective action implementing the April 2006 recommendations conducted between September and December 2006 involved: the installation of ten monitoring wells; the advancement of one soil boring; the removal of 398 tons of contaminated soil; the pumping of 5,100 gallons of contaminated groundwater from the backfilled excavation; and the first groundwater monitoring event. Approximately 30 to 40 cubic yards of petroleum hydrocarbon-contaminated soil, at estimated concentrations of 1,000+ milligrams per kilogram (mg/kg), was inaccessible for removal and still resides beneath the building on site (SES, 2006c).

In December 2006, an additional 4,000 gallons of petroleum-contaminated water was pumped from a temporary dewatering point in the backfilled excavation and disposed of at a certified recycler. This action is discussed along with the results of the second groundwater monitoring event (SES, 2007).

REGULATORY STATUS

The Alameda County Environmental 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 – San Francisco Bay Region (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. Alameda County Environmental Health has assigned the site to its fuel leak case system (RO#2901), and a case officer has been assigned. The case has been assigned No. T0600105641 in the Water Board's GeoTracker system. Electronic uploads of required data/reports are submitted to both agencies.

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 WORK

This report discusses third quarter groundwater monitoring event conducted on July 12, 2007.

2.0 PHYSICAL SETTING

TOPOGRAPHY AND DRAINAGE

The mean elevation of the property is approximately 18 feet above mean sea level (amsl), and the general topographic gradient in the site vicinity is slight and to the west-southwest (toward San Francisco Bay). The site itself has no discernible slope. The nearest downgradient (to the west) permanent surface water body is the Airport Channel of San Leandro Bay (which is connected to San Francisco Bay), approximately 2 miles west of the subject property. According to the commercially available database, the site is not located within a flood zone or wetland.

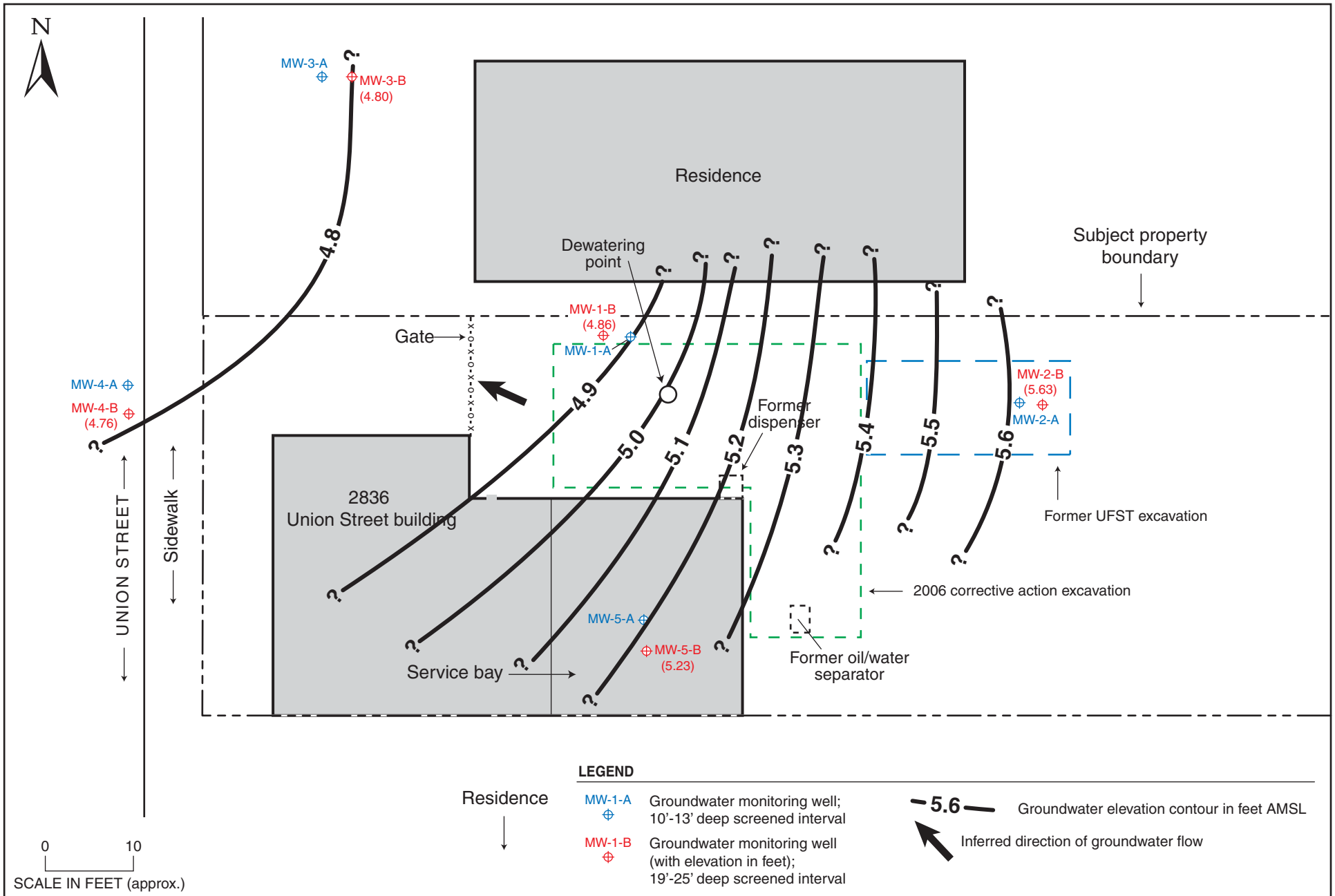
LITHOLOGY AND HYDROGEOLOGY

The predominant soil type in all site boreholes was silty clay, generally firm and plastic. Several of the boreholes had no obvious sand or gravel units, although minor amounts of sand and gravel were occasionally present in the overall clay matrix with the occurrence of groundwater coincident in units with higher sandy-gravel than clay content. Local heterogeneities in shallow lithology and groundwater levels are typical of the alluvial deposits in this area.

Local groundwater flow direction is generally to the west (toward San Francisco Bay and following local topography) in this area of west Oakland. Groundwater in the immediate vicinity of the former UFST occurs at a depth of less than 10 feet, and appears under at least semi-confining conditions, rising from approximately 20 feet below ground surface to as high as 6 feet below grade, such that groundwater is in contact with residual contaminated soil. The groundwater contaminant plume has not been fully delineated, but appears to have an elliptical configuration with the long axis trending east to west-northwest.

GROUNDWATER FLOW DIRECTION

Figure 3 is a groundwater elevation map, based on the July 12, 2007 groundwater elevation measurements. The flow direction is indicated to be to toward the west-northwest (toward San Francisco Bay), generally parallel to the long dimension of the groundwater contaminant plume. Subject property groundwater gradient in the current event was relatively flat, at approximately 0.009 feet/foot.



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GROUNDWATER ELEVATION MAP (B-WELLS)

2836 Union Street, Oakland, CA

Figure 3

by: MJC | JULY 2007

2005-65-55

3.0 THIRD QUARTER 2007 GROUNDWATER MONITORING AND SAMPLING

This section presents the groundwater sampling and analytical methods for the most recent event (Third Quarter 2007), conducted on July 12, 2007.

GROUNDWATER MONITORING

Groundwater monitoring well water level measurements, sampling, and field analyses were conducted by Blaine Tech Services (San Jose, California) on July 12, 2007, under the direct supervision of SES personnel. To minimize the potential for cross-contamination, wells were purged and sampled in order of anticipated increasing contamination (based on analytical results from the previous quarter).

As the first monitoring task, static water levels were measured in the ten site wells using an electric water level indicator. The wells were then sampled with a peristaltic pump, during which the groundwater quality parameters of temperature, pH, conductivity, and turbidity were field-measured using daily-calibrated instruments. Approximately 6.9 gallons of sampling purge water was generated and containerized onsite. The purge water will be disposed of at later date after subsequent monitoring events and additional purge water has accumulated. The samples were placed in an ice chest with ice at approximately 4°C and transported to the analytical laboratory under chain-of-custody the same day. Laboratory analysis was conducted by Curtis and Tompkins, Ltd. (Berkeley, California), an analytical laboratory certified by the State of California Environmental Laboratory Accreditation Program (ELAP).

The locations of all site monitoring wells are shown on Figure 2. Well construction information and groundwater elevation data are summarized in Table 1. Appendix A contains the groundwater monitoring field records for the current event. Appendix B outlines SES's standard sampling protocol for groundwater. Groundwater analytical results are presented and discussed in Section 4.0. The certified analytical results are contained in Appendix C

Table 1
Monitoring Well Groundwater Elevation Data – July 12, 2007
2836 Union Street, Oakland, California

Well	Well Depth Below TOC	Rim Elevation	TOC Elevation	Groundwater Elevation (7/12/07)
MW-1A	12.59	12.52	12.25	5.09
MW-1B	22.52	12.48	12.05	4.86
MW-2A	12.69	13.06	12.82	5.45
MW-2B	24.59	13.16	12.96	5.63
MW-3A	13.06	11.76	11.59	5.40
MW-3B	25.06	12.10	11.95	4.80
MW-4A	12.28	11.25	11.02	5.31
MW-4B	24.32	11.25	11.04	4.76
MW-5A	12.58	12.56	12.42	5.44
MW-5B	25.39	12.57	12.38	5.23

Notes:

TOC = top of casing

Wells are 1-inch diameter.

All elevations are in feet above mean sea level.

4.0 REGULATORY CONSIDERATIONS, ANALYTICAL RESULTS, AND DISCUSSION OF FINDINGS

REGULATORY CONSIDERATIONS AND SCREENING LEVELS

The Water Board has established Environmental Screening Levels (ESLs) for evaluating the likelihood of environmental impact. ESLs are conservative screening-level criteria for soil and groundwater, designed to be generally protective of both drinking water resources and aquatic environments; they incorporate both environmental and human health risk considerations. ESLs are not cleanup criteria (i.e., health-based numerical values or disposal-based values). Rather, they are used as a preliminary guide in determining whether additional remediation and/or

investigation may be warranted. Exceedance of ESLs suggests that additional investigation and/or remediation is warranted.

Different ESLs are published for commercial/industrial vs. residential land use, for sites where groundwater is a potential drinking water resource vs. is not a drinking water resource, and the type of receiving water body. A Water Board-published map of the East Bay shows areas where groundwater is, and is not, a potential drinking water resource.

In our professional opinion, the appropriate ESLs for the subject site are based on the following:

- Residential land use (due to the residence adjoining the property) and commercial/ industrial use (for the subject property itself). Note that, for both soil and groundwater contaminants, all ESLs for site contaminants are the same for both residential and commercial/industrial land use.
- Groundwater is a potential drinking water resource. In our professional opinion, the appropriate ESLs for the subject site are *commercial/industrial land use* and *groundwater is a potential drinking water resource.* This is based on both the property zoning status (commercial/industrial) and the designation of this area of Oakland as "Zone A – Significant Drinking Water Resource (Water Board, 1999).
- The receiving body for groundwater discharge is an estuary (San Francisco Bay).

The State of California has also promulgated drinking water standards (Maximum Contaminant Levels [MCLs]) for some of the site contaminants. Drinking water standards may also be utilized by regulatory agencies to evaluate the potential risk associated with groundwater contamination. For the site contaminants, MCLs are generally the same as the ESLs (except that there is no MCL for gasoline).

Once ESLs or drinking water standards are exceeded, the need for and type of additional investigative and corrective actions are generally driven by the potential risk associated with the contamination. Minimum regulatory criteria generally applied to fuel leak cases in groundwater include:

- The contaminant source has been removed, including reasonably accessible contaminated soils that pose a long-term impact to groundwater.
- The extent of residual contamination has been fully characterized, to obtain sufficient lithologic and hydrogeologic understanding (generally referred to as a Site Conceptual Model).
- Groundwater wells have been installed and are monitored periodically to evaluate groundwater contaminant concentrations and hydrochemical trends.

- The stability of the contaminant plume has been evaluated to determine whether it is moving or increasing in concentration.
- A determination has been made as to whether the residual contamination poses an unacceptable risk to sensitive receptors.

As stated above, ESLs are used as a preliminary guide in determining whether additional remediation or other action is warranted. Exceedance of ESLs may warrant additional actions, such as monitoring plume stability to demonstrate no risk to sensitive receptors in the case of sites where drinking water is not threatened.

ANALYTICAL METHODS

The initial site characterization documented contamination by the following LUFT-related constituents: gasoline; BTEX; and methyl *tertiary*-butyl ether (MTBE). In addition, several other contaminants were analyzed (as required by Alameda County Environmental Health)—ethanol; fuel oxygenates (*tertiary*-butyl alcohol [TBA], di-isopropyl ether [DIPE], ethyl *tertiary*-butyl ether [ETBE], and *tertiary*-amyl methyl ether [TAME]); and lead scavengers (1,2-dichloroethane [EDC] and 1,2-dibromoethane [EDB]). Fuel oxygenates and lead scavengers were analyzed in monitoring wells for which there were no data or in those that showed previous laboratory detectable concentrations for these constituents.

Groundwater samples were analyzed using the following methods for:

- Total volatile hydrocarbons (TVH) – gasoline range, by EPA Method 8015M
- BTEX and MTBE, by EPA Method 8260
- TBA, DIPE, ETBE, and TAME, by EPA Method 8260B (in accordance with Alameda County Environmental Health requirement)
- EDC and EDB, by EPA Method 8260B (in accordance with Alameda County Environmental Health requirement)

All groundwater samples were analyzed by Curtis & Tompkins, Ltd. (Berkeley, California) which maintains current ELAP certifications for all the analytical methods utilized in this investigation.

QUALITY CONTROL SAMPLE ANALYTICAL RESULTS

Laboratory quality control (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 (see Appendix C).

ANALYTICAL RESULTS AND DISTRIBUTION OF CONTAMINANTS

Table 2 summarizes the groundwater monitoring analytical results for TVHg, associated hydrocarbons, and MTBE. Table 3 presents the analytic results of the fuel oxygenates and lead scavengers. The certified laboratory reports are contained in Appendix C.

Groundwater Analytical Results

The ESLs for TVHg and all the BTEX components were exceeded in groundwater collected from the temporary excavation dewatering point. TVHg was detected above its ESLs in all five of the B zone wells. All of the A zone wells were below the detection limits for TVHg (MW-1A, MW-3A, and MW-5A could not be sampled due to insufficient groundwater volume). MTBE was detected in MW-1B below the ESL. MTBE was detected above its ESL in wells MW-2B, MW-4A, and MW-5B. Benzene was detected in MW-5B (1.1 µg/L) just slightly over the ESL (1.0 µg/L). Ethylbenzene was detected below its ESL in MW-5B. The lead scavenger 1,2-dichloroethane (EDC) was detected above its ESL in both wells where it was analyzed; MW-1B and MW-2B.

Figure 4 shows an isoconcentration contour map of TVHg concentration in groundwater based on the July 2007 monitoring well analytical results. The plume geometry indicates a west-by-northwest migrational pattern, which is in line with general groundwater flow direction in this area. Contamination levels have risen in upgradient wells MW-2A and MW-2B from the Q2-2007 sampling event. This is most likely a rebound from the 2006 remedial activities. The source area well MW-5B showed a decrease from the Q2-2007 sampling event, dropping from 3,300 to 2,000 µg/L in TVHg concentration. Concentrations in the peripheral wells; MW-1B, MW-3B, and MW-4B remained consistent with the previous three sampling events. Monitoring wells MW-1A, MW-3A, and MW-5A were not sampled due to insufficient groundwater volumes. This is due to low levels of precipitation and groundwater recharge.

Table 2
July 2007 Groundwater Analytical Results
2836 Union Street, Oakland, California

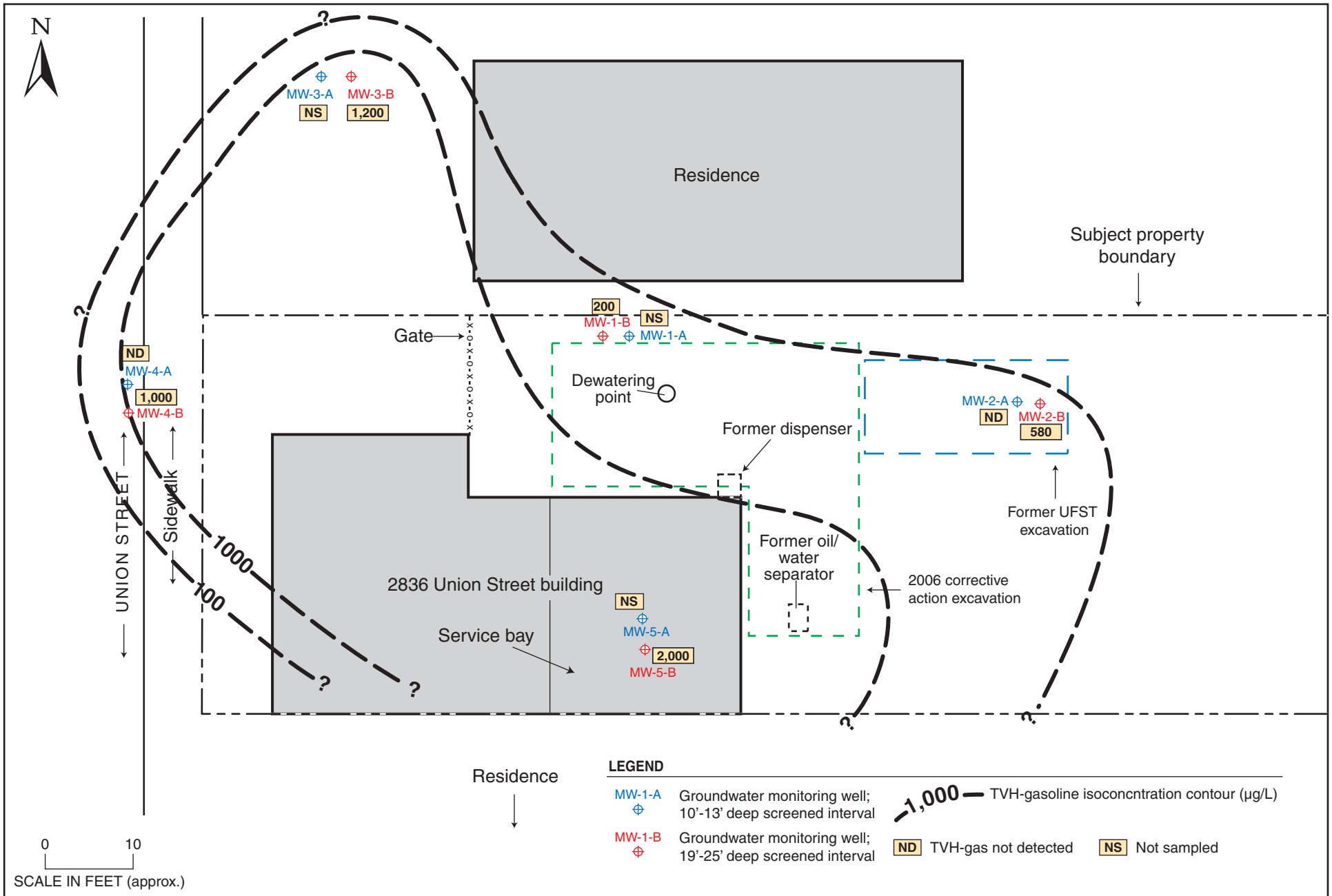
Sample	TVHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
Monitoring Wells						
MW-1A*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MW-1B	**200**	*<1.3*	*<1.3*	*<1.3*	*<1.3*	3.2
MW-2A	*<50*	*<0.5*	*<0.5*	*<0.5*	*<0.5*	*<0.5*
MW-2B	**580**	*<0.5*	*<0.5*	*<0.5*	*<0.5*	**6.0**
MW-3A*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MW-3B	**1,200**	*<2.0*	*<2.0*	*<2.0*	*<2.0*	*<2.0*
MW-4A	*<50*	*<0.5*	*<0.5*	*<0.5*	*<0.5*	**64**
MW-4B	**1,000**	*<4.2*	*<4.2*	*<4.2*	*<4.2*	*<4.2*
MW-5A*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MW-5B	**2,000**	**1.1**	*<0.5*	2.2	*<0.5*	**26**
EDW-1	**4,300**	**26**	**66**	**190**	**430**	**26**
Groundwater ESLs	100	1.0	40	30	20	5.0

Notes:
ESLs = Water Board Environmental Screening Levels for residential or commercial/industrial sites where groundwater is a potential drinking water resource (Water Board, 2005).
MTBE = methyl tertiary-butyl ether
TVHg = total volatile hydrocarbons as gasoline
NA = not analyzed for this constituent; NS = not sampled
* = Well not sampled due to insufficient groundwater volume
EDW-1 = sample collected from temporary excavation dewatering point
All concentrations are in micrograms per liter (µg/L). Samples in **bold-face** type exceed the ESL criterion.

Table 3
July 2007 Groundwater Sample Analytical Results
Lead Scavengers and Fuel Oxygenates
2836 Union Street, Oakland, California

Sample I.D.	EDC	EDB	ETBE	DIPE	TAME	TBA
Groundwater Analyses (µg/L)						
MW-1A*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-1B	**3.4**	*< 1.3*	*< 1.3*	*< 1.3*	*< 1.3*	*<25*
MW-2A	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-2B	**1.4**	*< 0.5*	*< 0.5*	*< 0.5*	*<0.5*	*<10*
MW-3A*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MW-3B	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-4A	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-4B	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
MW-5A*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
MW-5B	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*
Water Board Environmental Screening Levels						
Groundwater ESLs	0.5	0.05	NLP	NLP	NLP	NLP

Notes:
ESLs = Water Board Environmental Screening Levels for residential or commercial/industrial sites where groundwater is a potential drinking water resource.
NLP = no level published
EDB = ethylene dibromide (1,2-dibromoethane)
EDC = ethylene dichloride (1,2-dichloroethane).
ETBE = ethyl tertiary-butyl ether
DIPE = isopropyl ether
TAME = tertiary-amyl methyl ether
TBA = tertiary-butyl alcohol
NA = not analyzed for this constituent; NS = not sampled
* = Well not sampled due to insufficient groundwater volume.
All concentrations are in micrograms per liter (µg/L). Samples in **bold-face** type exceed the ESL criterion.



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TVH-GASOLINE PLUME — JULY 12, 2007
2836 Union Street, Oakland, CA

Figure 4

by: MJC | JULY 2007

2005-65-56

5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

SUMMARY AND CONCLUSIONS

- One 10,000-gallon gasoline UFST was installed in the late 1970s. The UFST operated under Alameda County Environmental Health permit until its removal in 1998.
- A preliminary investigation was conducted in August 2005, additional site characterization investigations in October 2005 and April 2006 and a corrective action entailing contaminated soil excavation and the installation of ten monitoring wells was conducted in September to October 2006.
- Third Quarter 2007 groundwater analytical results show a general reduction in TVHg (a decrease from 3,300 to 2,000 µg/L) in the source area and stability of contaminants in the peripheral wells. There was an increase in the TVHg concentration in the upgradient well MW-2B. This is most likely a rebound from the 2006 remedial activities.
- The primary source (UFST) and secondary source (contaminated soil) have been remediated by excavation to the extent practical, without removing the garage building. It is estimated that between 30 and 40 cubic yards of contaminated material containing TVHg at present concentrations (estimated at 1,200 mg/kg) is located beneath the garage portion of the building and cannot be directly accessed without structurally compromising the building. The property owner is currently considering removal of part of the garage building to access the remaining contaminated soil.
- Shallow groundwater will likely continue to be impacted by the remaining residual soil contamination by desorption from soil into groundwater. Groundwater contamination will continue to migrate downgradient from the source area, primarily by advection.
- The groundwater contaminate plume has not been fully delineated, but appears to be in elliptical configuration with its long axis trending east by west-northwest.
- Excavation dewatering resulted in the capture of contaminant mass but has not resulted in the plume being drawn back on-site.
- The property owner has no plans to utilize site groundwater for any purpose, and assuming approval for site development is achieved, the former source area would remain paved to prevent any infiltrating precipitation from providing a migrational mechanism for the hydrocarbons still entrained in the soil. Groundwater in the immediate vicinity of

the site is not likely to be a potential drinking water source, given its shallow depth and turbidity.

RECOMMENDATIONS

- We recommend following up with Alameda County Environmental Health following its receipt of this report, to discuss the requirements to move the site toward regulatory closure. We further recommend that the Alameda County Environmental Health-requested work be implemented, and that all future technical reports be provided to the appropriate regulatory agencies, including electronic uploads to Alameda County Environmental Health's ftp system and the State Water Board's GeoTracker system.
- Quarterly groundwater monitoring should be continued to delineate seasonal trends and changes in flow direction and hydrochemistry.
- Analysis for lead scavengers and fuel oxygenates should be limited to the wells with a historical detection—namely, MW-1B, MW-2B, MW-3A and MW-5A.
- Additional excavation dewatering should be completed, followed by collection of post-pumping groundwater samples to evaluate the effectiveness of the pumping on controlling the plume migration.
- Additional remediation such as soil vapor extraction or excavation of the remaining contaminated soil should be considered should natural attenuation fail to demonstrate a stable or reducing plume.

6.0 REFERENCES

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Stellar Environmental Solutions, Inc. (SES), 2007a. First Quarter 2007 Groundwater Monitoring Report – 2836 Union Street, Oakland, California. February 6.

Stellar Environmental Solutions, Inc. (SES), 2007b. Second Quarter 2007 Groundwater Monitoring Report – 2836 Union Street, Oakland, California. April 6.

7.0 LIMITATIONS

This report has been prepared for the exclusive use of by the Estate of Mr. Lawrence Wadler (subject property owner), the regulatory agencies, and their authorized assigns and/or representatives. 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 solely on the findings of the investigations discussed herein. This report has been prepared in accordance with generally accepted methodologies and standards of practice of the area. The personnel performing this assessment 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.

APPENDIX A

GROUNDWATER MONITORING AND SAMPLING FIELD REPORT

WELL GAUGING DATA

Project # 070712-DR1 Date 7/12/07 Client Stellar Env.

Site 2836 Union St. 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
MW-1A	0811	3/4"					7.16	12.45		
MW-1B	0818	3/4"					7.19	22.49		
MW-2A	0812	3/4"					7.37	12.74		
MW-2B	0814	3/4"					7.33	24.61		
MW-3A	0828	3/4"					6.19	12.95		
MW-3B	0830	3/4"					~~6~~7.15	25.03		
MW-4A	0825	3/4"					5.71	12.14		
MW-4B	0822	3/4"					6.28	24.30		
MW-5A	0821	3/4"					6.98	12.50		
MW-5B	0820	3/4"					7.15	25.31		
EDW-1	0832	4"					7.61	12.60		

WELLHEAD INSPECTION CHECKLIST

Date 7/12/07 Client Stellar Env.

Site Address 2836 Union St. Oakland CA.

Job Number 070712-DR1 Technician DR

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-1A	X							
MW-1B	X							
MW-2A	X							
MW-2B	X							
MW-3A	X							
MW-3B	X							
MW-4A	X							
MW-4B	X							
MW-5A	X							
MW-5B	X							
EDW-1							X	

NOTES: No lid. Only tape and Conc are covering well.

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Stellar @ Union St.			PROJECT NUMBER	070712-DR1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. °C	INITIALS
Myron L Ultrameter	6211286	7/12/07 0645	7.0 3900 10.0 4.0	7.01 3902 9.98 4.0	Y	17.3	DR
Hach Turbidimeter	060700018253	7/12/07 0650	510 55 5.7	551 54 5.2	Y	—	DR

WELL MONITORING DATA SHEET

Project #: 070712-DR1	Client: Stellar
Sampler: DR	Date: 7/12/07
Well I.D.: MW-1A	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 12.45	Depth to Water (DTW): 7.16
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]:	

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

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

1 Case Volume	Specified Volumes	Calculated Volume
400 mL (Gals.)	X 3	= 1200 mL Gals.

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

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
* Well	dewatered	prior	to getting	even 1 case volume.		
Won't	back	to well	periodically	throughout	the day. No recharge.	
No	sample	taken.	DTW = 12.40			

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

Sampling Date: 7/12/07 Sampling Time: Depth to Water:

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

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

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

V LL MONITORING DATA SHI T

Project #: 070712-DR1	Client: Shell
Sampler: DR	Date: 7/12/07
Well I.D.: ~~MW-3B~~ MW-1B	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 24.30	Depth to Water (DTW): 6.28
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]:	

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

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

1158 mL (~~Gals.~~) X 3 = 3474 mL
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
1208	22.0	7.0	1005	92	1160	clear
1212	21.8	6.9	1051	100	2320	"
1216	21.6	6.8	1093	116	3480	"

Did well dewater? Yes (No) Gallons actually evacuated: 3480 mL

Sampling Date: 7/12/07 Sampling Time: 1220 Depth to Water: 18.18

Sample I.D.: ~~MW-3B~~ MW-1B Laboratory: Kiff CalScience Other CT

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

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

V LL MONITORING DATA SHI T

Project #: 070712-DR1	Client: Shell
Sampler: DR	Date: 7/12/07
Well I.D.: MW-2A	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 12.74	Depth to Water (DTW): 7.37
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]:	

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

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

407 (mL)	X 3	= 1221 (mL)
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)	mL Gals. Removed	Observations
1110	19.9	7.1	1019	103	407	clear
1113	20.3	7.1	955	111	814	"
1116	20.4	7.0	922	108	1221	"

Did well dewater? Yes (No) Gallons actually evacuated: 1221 mL

Sampling Date: 7/12/07 Sampling Time: 1120 Depth to Water: 9.09

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

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

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

WELL MONITORING DATA SHEET

Project #: 070712-DR1	Client: Shell
Sampler: DR	Date: 7/12/07
Well I.D.: MW-2B	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 24.61	Depth to Water (DTW): 7.33
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]:	

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

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

1308 mL (Gals.)	X 3	= 3924 mL 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)	mL Gals. Removed	Observations
0953	22.41	9.2	667	816	1310	cloudy
1000	21.2	8.3	956	>1000	2620	"
1007	21.0	8.1	1009	>1000	3930	"

Did well dewater? Yes (No) Gallons actually evacuated: 3930 mL

Sampling Date: 7/12/07 Sampling Time: 1015 Depth to Water: 22.18

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

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

V LL MONITORING DATA SHI f

Project #: 070712-DR1	Client: Stellar
Sampler: DR	Date: 7/12/07
Well I.D.: MW-3A	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 12.95	Depth to Water (DTW): 6.19
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]:	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other _____

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

1 Case Volume	Specified Volumes	Calculated Volume
512 (mL ~~Gals.~~)	X 3	= 1536 (mL ~~Gals.~~)

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

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	(mL ~~Gals.~~) Removed	Observations
1030	21.4	7.3	1719	421	515	cloudy / odor
1034	20.9	6.9	1334	309	1030	"
*	Well dewatered. Checked throughout the day for recharge. Too slow					
	of recharge for a sample.					

Did well dewater? (Yes) No Gallons actually evacuated: 1050 mL

Sampling Date: 7/12/07 Sampling Time: Depth to Water:

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

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

V LL MONITORING DATA SHE T

Project #: 070712-DR1	Client: Shell
Sampler: DR	Date: 7/12/07
Well I.D.: MW-3B	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 25.03	Depth to Water (DTW): 7.15
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]: ———	

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

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

1354 mL (Gals.) X 3 = 4062 mL (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
1229	21.6	7.0	1046	121	1754	clear
1234	20.3	7.0	1010	133	2708	"
1239	20.0	6.9	996	131	4062	"

Did well dewater? Yes (No) ~~Gallons~~ actually evacuated: 4062 mL

Sampling Date: 7/12/07 Sampling Time: 1245 Depth to Water: 9.02

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

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

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

W LL MONITORING DATA SHE T

Project #: 070712.DR1	Client: Stellar
Sampler: DR	Date: 7/12/07
Well I.D.: MW-4A	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 12.14	Depth to Water (DTW): 5.71
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]: 7.00	

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

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

487 mL (~~Gals.~~) X 3 = 1,461 mL ~~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)	mL ~~Gals.~~ Removed	Observations
910	21.1	5.8	1287	97	500	clear
913	20.7	6.3	1288	216	1000	light cloudy
* well	dewatered	@	1050 mL		~~500~~	
1015	21.3	6.6	1312	195		light cloudy
Pulled	Sample and	only	got 2 VOA	was given to	well dewatering.	went back at end of day and got no water.

Did well dewater? (Yes) No Gallons actually evacuated: 1050 mL

Sampling Date: 7/12/07 Sampling Time: 1115 Depth to Water: 6.91

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

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

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

V LL MONITORING DATA SHI T

Project #: 070712-DR1	Client: Stellar
Sampler: DR	Date: 7/12/07
Well I.D.: MW-4B	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 22.30	Depth to Water (DTW): 6.28
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]:	

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

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

1364 mL (~~Gals.~~) X 3 = 4092 mL ~~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)	mL ~~Gals.~~ Removed	Observations
1145	19.6	7.0	929	88	1364	clear
1148	20.2	6.8	913	94	2728	"
1151	20.5	6.8	908	108	4092	"

Did well dewater? Yes (No) Gallons actually evacuated: 3480 mL

Sampling Date: 7/12/07 Sampling Time: 1200 Depth to Water: 16.41

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

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

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

W LL MONITORING DATA SHE T

Project #: 070712-DR1	Client: Stellar
Sampler: DR	Date: 7/12/07
Well I.D.: MW-5A	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 12.50	Depth to Water (DTW): 6.98
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]:	

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

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

Other: _____

418 mL (Gals.) X 3 = 1254 mL (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)	mL Gals. Removed	Observations
1056	18.4	7.7	1225	195	420	cloudy / odor
* well	dewatered @	450mL				
checked	well	throughout the day. Well never recharged. No sample				
could be taken						

Did well dewater? (Yes) No Gallons actually evacuated: 450mL

Sampling Date: 7/12/07 Sampling Time: Depth to Water: 12.42

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

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

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

W LL MONITORING DATA SHE T

Project #: 070712 - DR1	Client: Stellar
Sampler: DR	Date: 7/12/07
Well I.D.: MW - 5B	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 25.31	Depth to Water (DTW): 7.15
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]:	

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

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

1375 mL (Gals.) X	3	= 4125 mL 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)	mL Gals. Removed	Observations
1254	19.0	7.0	997	109	1380	clear/color
1259	19.1	6.9	1004	148	2760	"
1305	18.8	6.9	1012	169	4140	"

Did well dewater? Yes (No) Gallons actually evacuated: 4140 mL

Sampling Date: 7/12/07 Sampling Time: 1310 Depth to Water: 22.41

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

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

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

V LL MONITORING DATA SHE T

Project #: 070712-DR1	Client: Shell
Sampler: DR	Date: 7/12/07
Well I.D.: EDW-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 12.60	Depth to Water (DTW): 7.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer; Waterra; Sampling Method: Bailer
X Disposable Bailer; Peristaltic; X Disposable Bailer
Positive Air Displacement; Extraction Pump; Extraction Port
Electric Submersible; Other_____; X Dedicated Tubing
Other:

3.2 (Gals.) X	3	=	9.6 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	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1316	21.2	11.3	977	38	3.2	clear/color
1321	21.3	11.6	1298	52	6.4	"
1326	21.2	11.6	1318	70	9.6	"

Did well dewater? Yes (No) Gallons actually evacuated: 9.6

Sampling Date: 7/12/07 Sampling Time: 1330 Depth to Water: 8.02

Sample I.D.: EDW-1 Laboratory: Kiff CalScience Other CTI

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

SPH or Purge Water Drum Log

Client: Stellar

Site Address: 2836 Union St. Oakland CA

STATUS OF DRUM(S) UPON ARRIVAL

Date	10/5/06	1/9/07	4/6/07	7/12/07		
Number of drum(s) empty:	(3)	3 (Non BTS)				
Number of drum(s) 1/4 full:			1 (~5 gal)	1 (BTS)		
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	0					
Total drum(s) on site: Baker Tanks 2	(3)		1 BTS	1		
Are the drum(s) properly labeled?			Yes	Y		
Drum ID & Contents:			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	10/5/06	1/9/07	4/6/07	7/12/07		
Number of drums empty:	0					
Number of drum(s) 1/4 full:		1 (~10 gal)	1 (~15 gal)	1 (25) gal		
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	0					
Total drum(s) on site:	0	1 (BTS) 3 (Non BTS)	1 BTS	1 (BTS)		
Are the drum(s) properly labeled?		BTS Yes	Yes	Y		
Drum ID & Contents:		→ Purge H_2O	Purge H_2O	Purge H_2O		

LOCATION OF DRUM(S)

Describe location of drum(s): ~~2 Baker Tanks along the fence line~~ we 4/6/07
55 gal. drums inside garage.

FINAL STATUS

Number of new drum(s) left on site this event	0	1	Ø	Ø		
Date of inspection:	10/5/06	1/9/07	4/6/07	7/12/07		
Drum(s) labelled properly:	—	Y	Y	Y		
Logged by BTS Field Tech:	DR	DR	MC	DR		
Office reviewed by:						

APPENDIX B

SES GROUNDWATER STANDARD SAMPLING PROTOCOLS

APPENDIX B:
SES GROUNDWATER STANDARD SAMPLING PROTOCOLS

SAMPLING AND ANALYSIS PERSONNEL

Sampling and analysis is conducted by Blaine Tech Services, a subcontractor to SES, which uses appropriately trained personnel to perform the water level measurements, sampling, and analyses of key natural attenuation indicators.

SUMMARY OF SAMPLING PROCEDURES

Activities that will occur during groundwater sampling are summarized as follows:

- Pre-arrangement with testing laboratory
- Assembly and preparation of equipment and supplies
- Groundwater sampling
  - water-level measurements
  - immiscible material measurements (with an interface probe, if applicable)
  - visual inspection of borehole water
  - well bore evacuation
  - sampling
- Sample preservation and shipment
  - sample preparation
  - onsite measurement of parameters using direct read instruments
  - sample labeling
- Completion of sample records
- Completion of chain-of-custody records
- Samples placed in chilled cooler
- Sample shipment

Detailed sampling and analysis procedures are presented in the following sections.

ARRANGEMENTS WITH ANALYTICAL LABORATORY

Prior to sampling, arrangements will be made with an analytical laboratory to conduct the sample analyses. Samples will be analyzed by Curtis and Tompkins, Ltd. (C&T), an analytical laboratory in Berkeley, California. C&T has the required Department of Toxic Substances Control (DTSC) certification to perform the analyses, and will provide a sufficient number of sample containers for the wells to be sampled and the blanks to be included. C&T will determine the proper type and size for the containers based on the analyses requested. For samples requiring chemical preservation, preservatives will be added to containers by the C&T prior to shipping containers to the facility. Shipping containers (ice chests with adequate container padding) will be sent to the facility with the sample containers.

PREPARATION FOR SAMPLING

Prior to the sampling episode, equipment to be used will be assembled and its operating condition verified, calibrated (if required), and properly cleaned (if required). In addition, all record-keeping materials will be prepared.

Equipment Calibration

Where appropriate, equipment will be calibrated according to the manufacturer's specifications prior to field use. This applies to the equipment for making onsite chemical measurements of pH, conductivity, water temperature, and photoionization detector (PID).

Equipment Cleaning

Portions of sampling and test equipment that will come into contact with the sample will be thoroughly cleaned before use. Such equipment includes water-level probe, bailers, lifting line, and other equipment or portions thereof that may be immersed. The procedure for cleaning non-dedicated equipment is as follows:

- Clean with potable water and phosphate-free detergent;
- Rinse with potable water;
- Rinse with distilled or deionized water; and
- Air dry the equipment prior to use.

Any deviations from these procedures will be documented in the permanent record of the sampling event.

Laboratory-supplied sample containers will be cleaned and sealed by the laboratory before shipping. The type of container provided and the method of container cleaning should be in the laboratory's permanent record of the sampling event.

Sampling equipment to be disposed of after use will be cleaned with potable water and phosphate-free detergent before disposal as solid waste. Rinse water will be stored in properly labeled 55-gallon drums for proper disposal, pending receipt of laboratory results of groundwater and soil sample analyses with assistance from SES.

SAMPLING PROCEDURES

Special care will be exercised to prevent contamination of the groundwater and extracted samples during the sampling activities. Contamination of a sample can occur through contact with improperly cleaned equipment. Cross-contamination of the groundwater can occur through insufficient cleaning of equipment between wells. Pre-cleaned disposable sampling equipment will be rinsed with distilled water prior to use. Sampling equipment and sample containers will be thoroughly cleaned before and after field use and between uses at different sampling locations according to the procedures discussed above. In addition to the use of properly cleaned equipment, two further precautions will be taken:

- A new pair of clean, disposable latex (or similar) gloves will be worn each time a different well is sampled.
- Sample collection activities will progress from the least affected (upgradient) area to the most affected (downgradient) area. Wells described as "background" or "upgradient" wells will be sampled first.

The following paragraphs present procedures for the several activities that comprise groundwater sample acquisition. These activities will be performed in the same order as presented below. Exceptions to this procedure will be noted in the permanent sampling record.

Preparation of Location

Prior to starting the sampling procedure, the area around the well will be cleared of foreign materials, such as brush, rocks, debris, etc. A clean (new) disposable plastic sheet will be placed around the well casing so that the sheet is flat on the ground. The sheet will be placed such that the flush-mount well projects through the center of the sheet. This preparation will prevent sampling equipment from inadvertently contacting the ground or exterior parts of the well.

Water-Level Measurement

The first sampling operation will be water-level measurement. An electrical probe or a weighted tape will be used to measure the depth to groundwater below the datum to the nearest 0.01 foot.

The datum, usually the top of the inner casing (inside and below the protective steel cover), will be described in the monitoring well records. A permanent mark or scribe will be marked on the inner casing.

If the wells to be sampled are closely spaced, the water levels at all of the closely-spaced wells will be measured before any of the wells are evacuated. The water-level probe or weighted tape will be cleaned with phosphate-free detergent in distilled water and with a distilled water rinse between usage at different wells.

Total Depth Measurement

Once the water level and immiscible material thickness is measured and recorded, the water-level probe or weighted tape will be slowly lowered to the bottom of the well. The depth to the bottom will be measured and recorded. The probe or tape will then be slowly withdrawn from the well. The bottom of the probe or tape will be observed after withdrawal to determine any evidence of viscous, heavy contaminants. Descriptions (and measurements, if possible) of such materials will be made from observation of the probe or tape.

Visual Inspection of Well Water

Prior to well evacuation, a small quantity of water will be removed with a bailer that is not completely immersed. The recovered sample is representative of the top of the water column in the well casing. If immiscible materials are present as measured by the interface probe at the top of the water column, this technique can allow their detection. The water will be observed for the presence of any floating films or other indications of immiscible materials. Any sample odors will be noted. Observations regarding odor or visual evidence of immiscible materials will be recorded in the sampling record.

The well water sample will be discarded unless the site-specific protocol calls for retention of this sample. The sample will be placed in a labeled container for proper disposal.

Well Bore Evacuation

Water contained within and adjacent to the well casing can potentially reflect chemical interaction with the atmosphere (by diffusion of gases down the casing) or the well construction materials (through prolonged residence adjacent to the casing).

Observations of this water will be recorded during removal and prior to it being discarded. Onsite parameter measurements of the purged water, as described in this section, will indicate when water-quality parameters have stabilized, and also will be recorded.

The volume of water contained within the well bore at the time of sampling will be calculated, and 4 times the calculated water volume will be removed from the well and discarded. A bailer will be used for well evacuation. The volume of water to be evacuated will be calculated as follows:

Number of Bailers:

$$\text{Number of bailers} = 4 \times \frac{\text{Volume of water in well (Vw)}}{\text{Volume of bailer (Vb)}}$$

Volume of Water in Well:

$$Vw = \frac{3.142 \times dw^2 \times Lw}{4}$$

where: Vw = water volume in well (ft^3)
dw = inside diameter of well (ft)
Lw = length of water column in well (ft)

Volume of Water in Full Bailer:

$$Vb = \frac{3.142 \times db2 \times Lb}{4}$$

where: Vb = water volume in bailer (ft^3)
db = inside diameter of bailer (ft)
Lb = length of bailer (ft)

Wells that can be evacuated to a dry state will be evacuated completely; samples will be taken as soon as sufficient water for sampling is present. Sample compositing—sampling over a lengthy

period by accumulating small volumes of water at different times to eventually obtain a sample of sufficient volume—will not be conducted.

Water produced during well evacuation will be contained in a suitable container and temporarily stored onsite pending proper disposal.

Some chemical and physical parameters in water can change significantly within a short time of sample acquisition. The following parameters cannot be accurately measured in a laboratory located more than a few hours from the facility, and will be measured onsite with portable equipment:

- pH
- Specific conductance
- Temperature
- Turbidity units

These parameters will be measured in unfiltered, unpreserved, "fresh" water, using the same sampling technique as for laboratory analyses. The measurements will be made in a clean glass container separate from those intended for laboratory analyses. The tested sample will be discarded after use. The measured values will be recorded in the sampling record.

Natural Attenuation Field Measurements

In addition to the meter reading above, following the indicators that groundwater has been purged sufficiently to represent water within the water bearing materials, natural attenuation parameters were measured by the Blaine Tech sampling personnel. These include meter readings for:

- Oxidation reduction potential;
- Dissolved oxygen; and
- Dissolved ferrous iron.

Sample Extraction

Natural attenuation parameters are measured before the water is purged and sampled. Care will be taken during insertion of sampling equipment to prevent undue disturbance of water in the well.

The pump or bailer will be lowered into the water gently to prevent splashing, and extracted gently to prevent creation of an excessive vacuum in the well. The sample will be transferred directly into the appropriate container. While pouring water from a bailer, the water will be

carefully poured down the inside of the sample bottle to prevent significant aeration of the sample. Unless other instructions are given by the analytical laboratory, the sample containers will be completely filled so that no air space remains in the container. Excess water taken during sampling will be placed in a container for proper disposal.

SAMPLE HANDLING

Sample Preservation

Water samples will be properly prepared for transportation to the laboratory by refrigeration and chemical preservation, as necessary. The laboratory providing sample containers will add any necessary chemical preservatives to the sealed containers provided prior to shipment.

Container and Labels

Glass containers and appropriate container lids will be provided by the laboratory. The containers will be filled and container lids tightly closed. Sample container lids will be sealed so as to make obvious any seal tampered with or broken. The label will be firmly attached to the container side (rather than the lid). The following information will be written with permanent marker on the label:

- Facility name;
- Sample identification;
- Sample type (groundwater, surface water, etc.);
- Sampling date;
- Sampling time; and
- Preservatives added, and sample collector's initials.

Sample Shipment

In most instances, the concentration and type of compounds present in the groundwater are considered by the U.S. Department of Transportation to be non-hazardous. Thus, the following packaging and labeling requirements for the sample materials are appropriate for shipping the sample to the testing laboratory:

- Package sample so that is does not leak, spill, or vaporize from its packaging
- Label package with:
  - sample collector's name, address, and telephone number
  - laboratory's name, address, and telephone number

- description of sample
- quantity of sample
- date of shipment

To comply with packaging regulations and prevent damage to expensive groundwater samples, SES will follow packaging and shipping instructions supplied by the certified testing laboratory.

Chain-of-Custody Control

After samples are obtained, chain-of-custody procedures will be followed to establish a written record concerning sample movement between the sampling site and the testing laboratory. Each shipping container will contain a chain-of-custody form to be completed by the sampling personnel packing the samples. The chain-of-custody form for each container will be completed in triplicate. One copy of this form will be maintained at the site; the other two copies will remain at the laboratory. One of the laboratory copies will become a part of the permanent record for the sample and will be returned with the sample analyses.

The record will contain the following minimum information:

- Collector's sample number
- Signature of collector
- Date and time of collection
- Place and address of collection
- Material type
- Preservatives added
- Analyses requested
- Signatures involved in the chain of possession
- Inclusive dates of possession

The shipping container will be sealed so as to make obvious any seal tampered with or broken. The chain-of-custody documentation will be placed inside the container so that it is immediately apparent to the laboratory personnel receiving the container, but could not be damaged or lost during shipping.

SAMPLING RECORDS

To provide complete documentation of sampling, detailed records containing the following information will be maintained during sampling:

- Sample location (facility name)
- Sample identification (name and sample number)
- Sample location map or detailed sketch
- Date and time of sampling
- Sampling method
- Field observations of sample appearance and odor
- Weather conditions
- Samples identification
- Any other significant information

APPENDIX C

CERTIFIED ANALYTICAL LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/12/07
Units:	ug/L	Received:	07/13/07
Batch#:	127281		

Field ID:	MW-1B	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/16/07
Lab ID:	195986-001		

Analyte	Result	RL
Gasoline C7-C12	200 Y Z	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	72-136
Bromofluorobenzene (FID)	88	78-131

Field ID:	MW-2A	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/16/07
Lab ID:	195986-002		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	72-136
Bromofluorobenzene (FID)	97	78-131

Field ID:	MW-2B	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/16/07
Lab ID:	195986-003		

Analyte	Result	RL
Gasoline C7-C12	580 H L Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	72-136
Bromofluorobenzene (FID)	98	78-131

Field ID:	MW-3B	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/16/07
Lab ID:	195986-004		

Analyte	Result	RL
Gasoline C7-C12	1,200 Y Z	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	72-136
Bromofluorobenzene (FID)	88	78-131

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/12/07
Units:	ug/L	Received:	07/13/07
Batch#:	127281		

Field ID:	MW-4A	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/16/07
Lab ID:	195986-005		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	72-136
Bromofluorobenzene (FID)	104	78-131

Field ID:	MW-4B	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/16/07
Lab ID:	195986-006		

Analyte	Result	RL
Gasoline C7-C12	1,000 Y Z	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	72-136
Bromofluorobenzene (FID)	94	78-131

Field ID:	MW-5B	Diln Fac:	2.000
Type:	SAMPLE	Analyzed:	07/16/07
Lab ID:	195986-007		

Analyte	Result	RL
Gasoline C7-C12	2,000 H L Y	100

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	72-136
Bromofluorobenzene (FID)	104	78-131

Field ID:	EDW-1	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	07/17/07
Lab ID:	195986-008		

Analyte	Result	RL
Gasoline C7-C12	4,300 H L	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	72-136
Bromofluorobenzene (FID)	112	78-131

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/12/07
Units:	ug/L	Received:	07/13/07
Batch#:	127281		

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC396392	Analyzed:	07/16/07

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	72-136
Bromofluorobenzene (FID)	112	78-131

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC396394	Batch#:	127281
Matrix:	Water	Analyzed:	07/16/07
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,887	94	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	72-136
Bromofluorobenzene (FID)	118	78-131

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	127281
MSS Lab ID:	195966-005	Sampled:	07/12/07
Matrix:	Water	Received:	07/13/07
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	100.0		

Type: MS Lab ID: QC396395

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	407,300	200,000	372,700	-17 *	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	72-136
Bromofluorobenzene (FID)	131	78-131

Type: MSD Lab ID: QC396396

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	200,000	352,700	-27 *	79-120	5	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	72-136
Bromofluorobenzene (FID)	116	78-131

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

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Software Version 3.1.7
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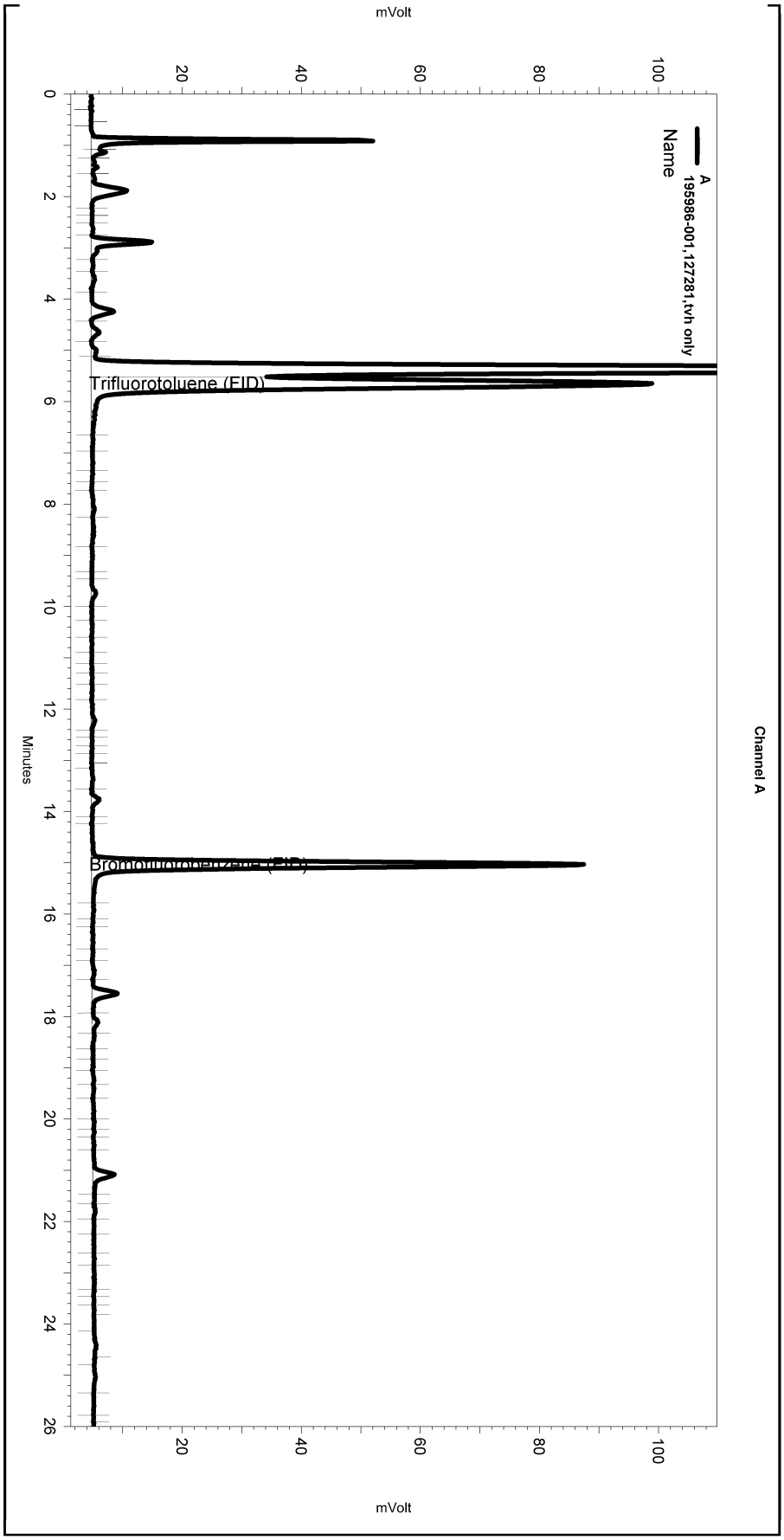
Vial & pH or Core ID: B1.3



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Manual Integration Fixes

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Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\197_019**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe191.met

Software Version 3.1.7
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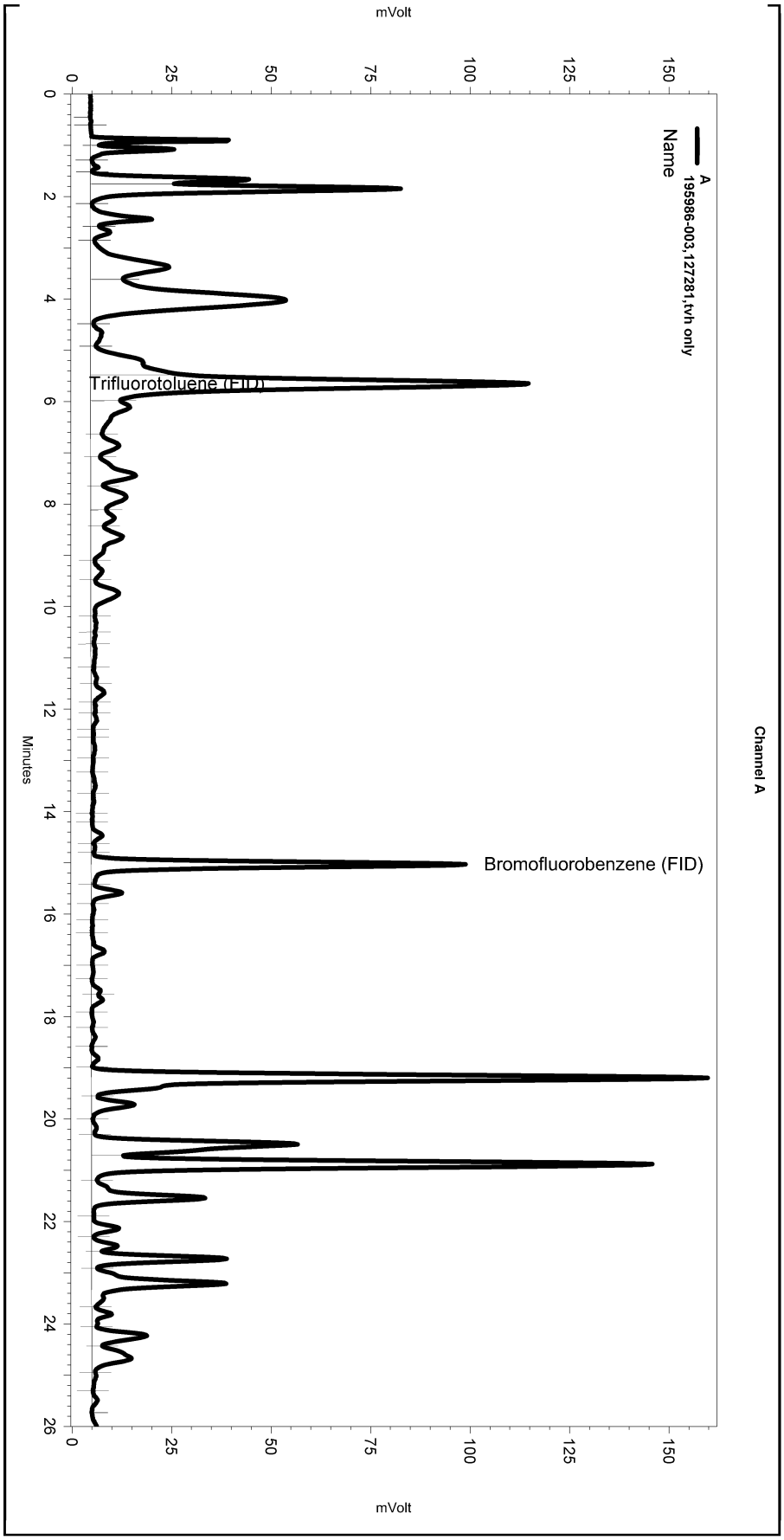
Vial & pH or Core ID: B1.3



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Yes	Threshold	0	0	50

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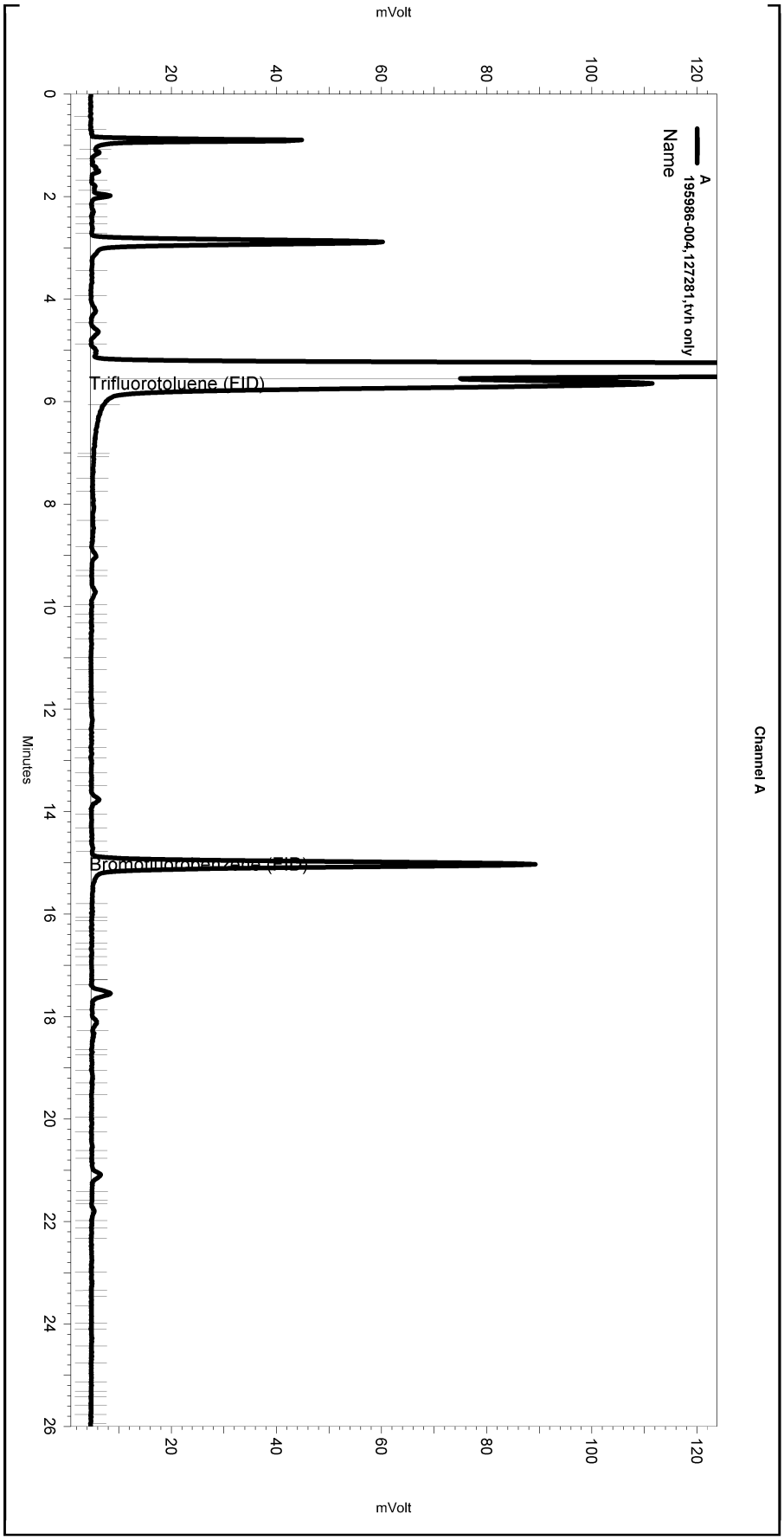
Vial & pH or Core ID: C1.3



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Integration Events

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Yes	Threshold	0	0	50

Manual Integration Fixes

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Yes	Split Peak	6.061	0	0

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Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe191.met

Software Version 3.1.7
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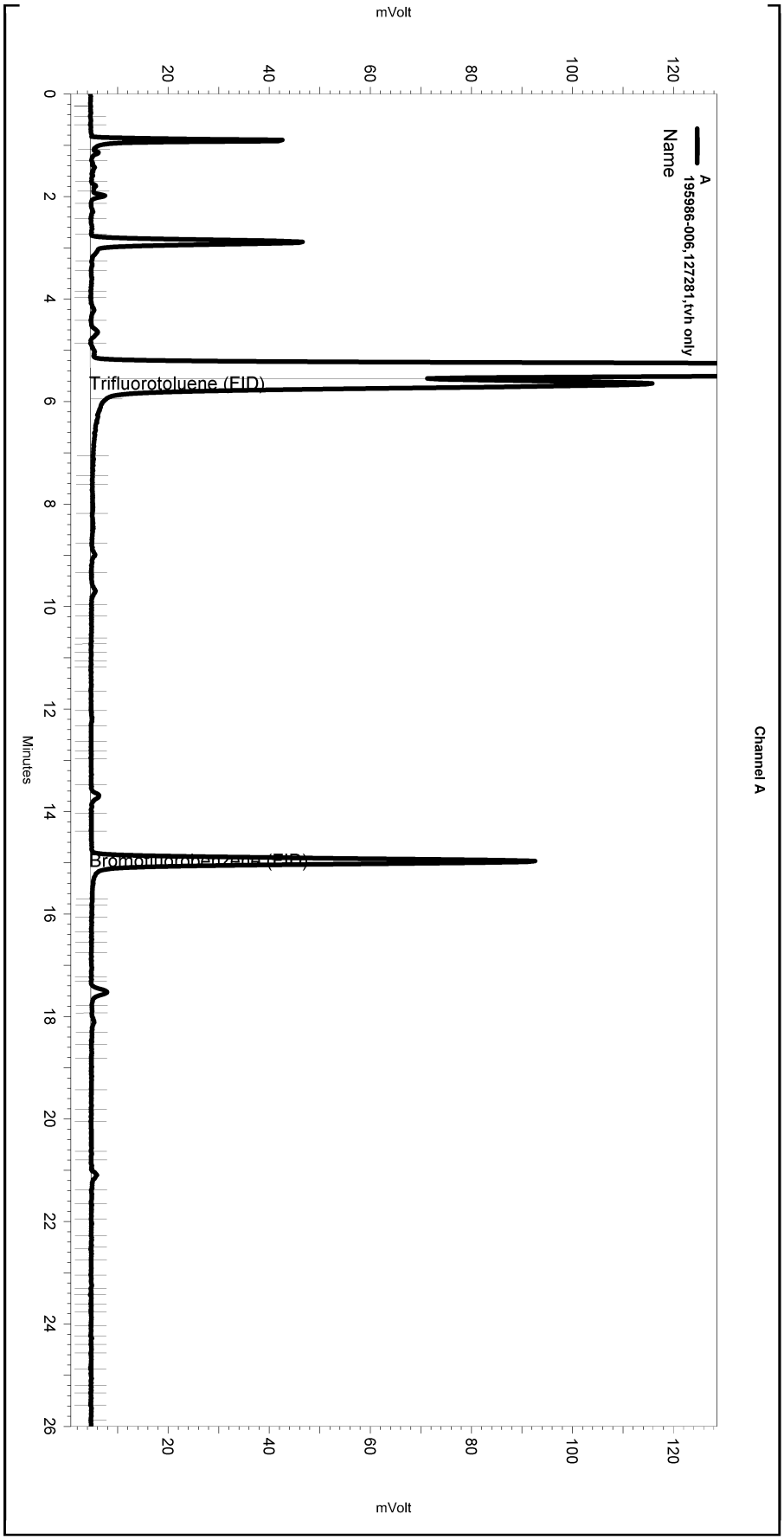
Analysis Date: 7/17/2007 10:30:12 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: B1.3



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Integration Events

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Yes	Threshold	0	0	50

Manual Integration Fixes

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Yes	Split Peak	5.948	0	0

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Sample Name: **195986-007,127281,2X,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\197_023**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
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Software Version 3.1.7
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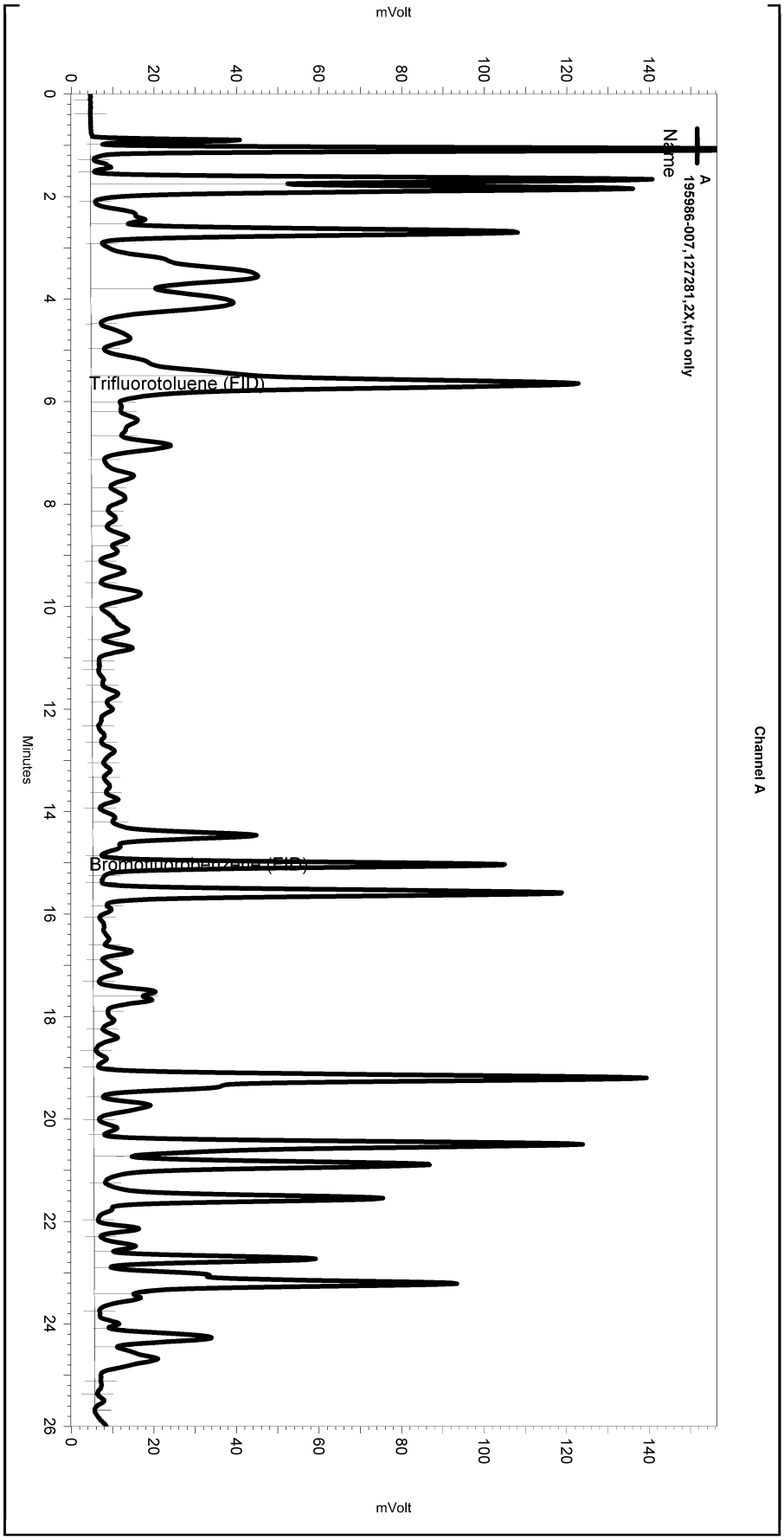
Analysis Date: 7/17/2007 10:30:17 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: C1.3



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Integration Events

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

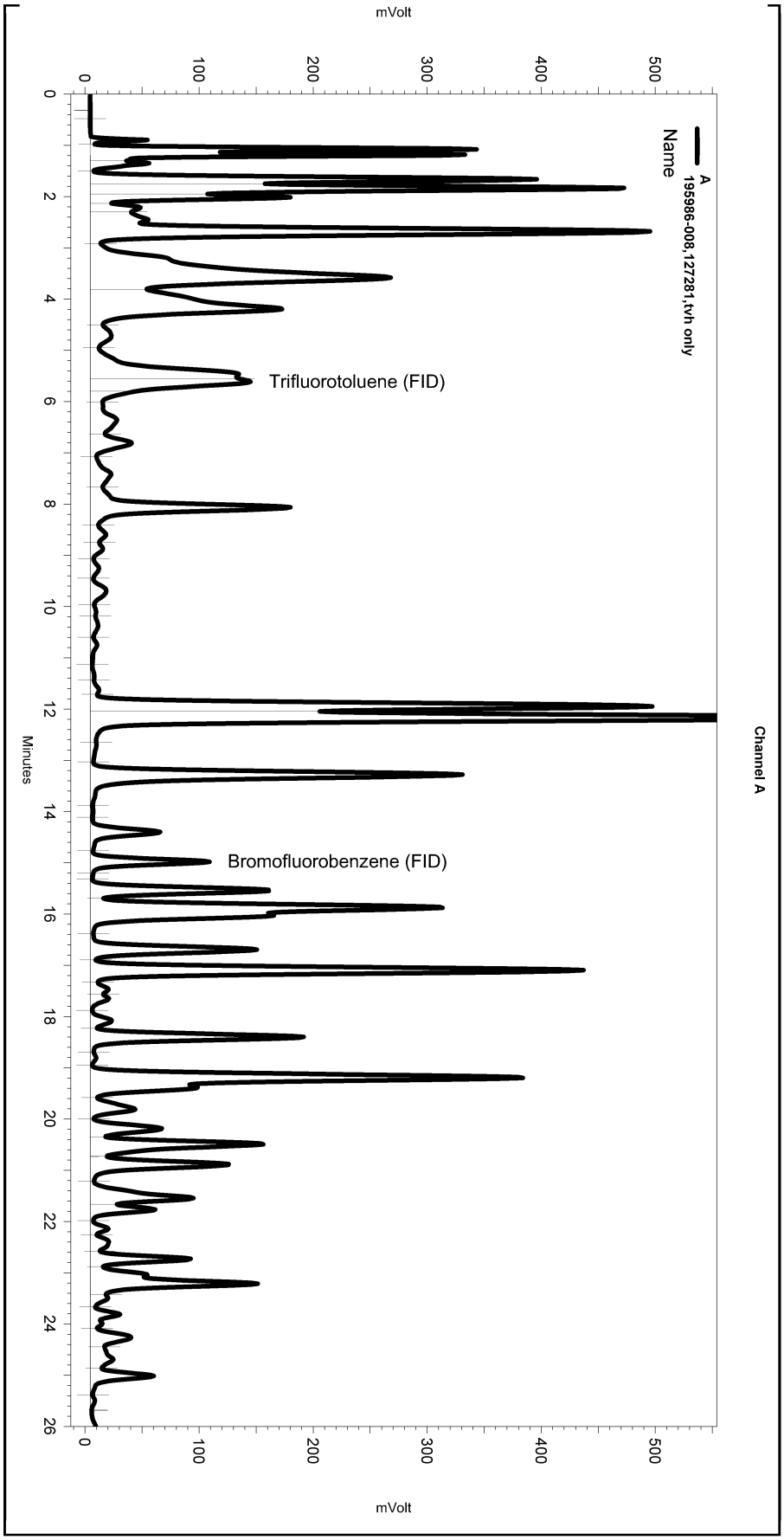
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\197_023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.503	0	0
Yes	Split Peak	15.248	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\197.seq**
Sample Name: **195986-008,127281,tvh only**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\197_025**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/17/2007 12:38:01 AM
Analysis Date: 7/17/2007 10:30:25 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: B1.3



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

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

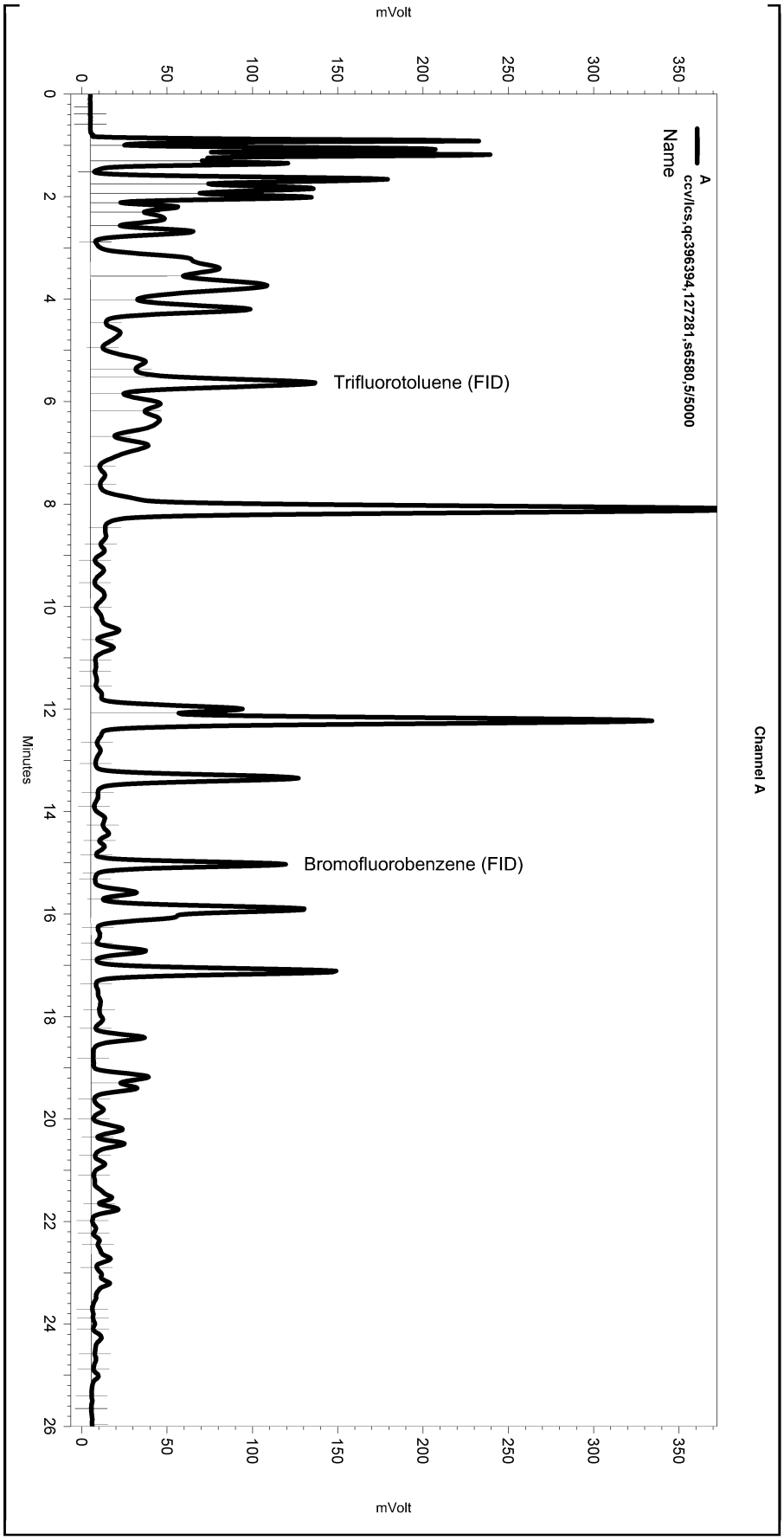
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\197_025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.034	26.017	0
Yes	Split Peak	5.543	0	0
Yes	Split Peak	5.801	0	0
Yes	Split Peak	15.201	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\197.seq**
Sample Name: **ccv/lcs,qc396394,127281,s6580,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\197_002**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe191.met

Software Version 3.1.7
Run Date: 7/16/2007 8:59:35 AM
Analysis Date: 7/17/2007 10:28:52 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

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

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\197_002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	5.515	0	0
Yes	Split Peak	15.2	0	0

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Field ID:	MW-2A	Batch#:	127269
Lab ID:	195986-002	Sampled:	07/12/07
Matrix:	Water	Received:	07/13/07
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	79-134
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Field ID:	MW-3B	Batch#:	127269
Lab ID:	195986-004	Sampled:	07/12/07
Matrix:	Water	Received:	07/13/07
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	4.000		

Analyte	Result	RL
MTBE	ND	2.0
Benzene	ND	2.0
Toluene	ND	2.0
Ethylbenzene	ND	2.0
m,p-Xylenes	ND	2.0
o-Xylene	ND	2.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	79-134
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Field ID:	MW-4A	Batch#:	127269
Lab ID:	195986-005	Sampled:	07/12/07
Matrix:	Water	Received:	07/13/07
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	64	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	79-134
Toluene-d8	97	80-120
Bromofluorobenzene	101	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Field ID:	MW-4B	Batch#:	127269
Lab ID:	195986-006	Sampled:	07/12/07
Matrix:	Water	Received:	07/13/07
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	8.333		

Analyte	Result	RL
MTBE	ND	4.2
Benzene	ND	4.2
Toluene	ND	4.2
Ethylbenzene	ND	4.2
m,p-Xylenes	ND	4.2
o-Xylene	ND	4.2

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	79-134
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Field ID:	MW-5B	Batch#:	127311
Lab ID:	195986-007	Sampled:	07/12/07
Matrix:	Water	Received:	07/13/07
Units:	ug/L	Analyzed:	07/17/07
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	26	0.5
Benzene	1.1	0.5
Toluene	ND	0.5
Ethylbenzene	2.2	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	102	79-134
Toluene-d8	96	80-120
Bromofluorobenzene	93	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Field ID:	EDW-1	Batch#:	127269
Lab ID:	195986-008	Sampled:	07/12/07
Matrix:	Water	Received:	07/13/07
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	2.000		

Analyte	Result	RL
MTBE	26	1.0
Benzene	36	1.0
Toluene	66	1.0
Ethylbenzene	190	1.0
m,p-Xylenes	300	1.0
o-Xylene	130	1.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	100	79-134
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-122

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	127269
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	1.000		

Type: BS Lab ID: QC396339

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	22.61	90	71-120
Benzene	25.00	26.61	106	80-120
Toluene	25.00	28.60	114	80-120
Ethylbenzene	25.00	28.47	114	80-124
m,p-Xylenes	50.00	60.01	120	80-127
o-Xylene	25.00	28.49	114	80-124

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	100	79-134
Toluene-d8	99	80-120
Bromofluorobenzene	95	80-122

Type: BSD Lab ID: QC396340

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	20.94	84	71-120	8	20
Benzene	25.00	24.42	98	80-120	9	20
Toluene	25.00	25.76	103	80-120	10	20
Ethylbenzene	25.00	26.65	107	80-124	7	20
m,p-Xylenes	50.00	55.95	112	80-127	7	20
o-Xylene	25.00	27.37	109	80-124	4	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	79-134
Toluene-d8	95	80-120
Bromofluorobenzene	93	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC396341	Batch#:	127269
Matrix:	Water	Analyzed:	07/16/07
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	79-134
Toluene-d8	91	80-120
Bromofluorobenzene	98	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	127311
Units:	ug/L	Analyzed:	07/17/07
Diln Fac:	1.000		

Type: BS Lab ID: QC396552

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	22.51	90	71-120
Benzene	25.00	25.55	102	80-120
Toluene	25.00	27.17	109	80-120
Ethylbenzene	25.00	27.73	111	80-124
m,p-Xylenes	50.00	57.42	115	80-127
o-Xylene	25.00	28.41	114	80-124

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	79-134
Toluene-d8	97	80-120
Bromofluorobenzene	92	80-122

Type: BSD Lab ID: QC396553

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	20.85	83	71-120	8	20
Benzene	25.00	24.04	96	80-120	6	20
Toluene	25.00	24.92	100	80-120	9	20
Ethylbenzene	25.00	26.02	104	80-124	6	20
m,p-Xylenes	50.00	55.14	110	80-127	4	20
o-Xylene	25.00	26.57	106	80-124	7	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	79-134
Toluene-d8	98	80-120
Bromofluorobenzene	94	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Aromatics by GC/MS

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC396554	Batch#:	127311
Matrix:	Water	Analyzed:	07/17/07
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	79-134
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Field ID:	MW-1B	Batch#:	127269
Lab ID:	195986-001	Sampled:	07/12/07
Matrix:	Water	Received:	07/13/07
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	2.500		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	25
MTBE	3.2	1.3
Isopropyl Ether (DIPE)	ND	1.3
Ethyl tert-Butyl Ether (ETBE)	ND	1.3
1,2-Dichloroethane	3.4	1.3
Benzene	ND	1.3
Methyl tert-Amyl Ether (TAME)	ND	1.3
Toluene	ND	1.3
1,2-Dibromoethane	ND	1.3
Ethylbenzene	ND	1.3
m,p-Xylenes	ND	1.3
o-Xylene	ND	1.3

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-123
1,2-Dichloroethane-d4	100	79-134
Toluene-d8	95	80-120
Bromofluorobenzene	95	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Field ID:	MW-2B	Batch#:	127269
Lab ID:	195986-003	Sampled:	07/12/07
Matrix:	Water	Received:	07/13/07
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	6.0	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	1.4	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-123
1,2-Dichloroethane-d4	99	79-134
Toluene-d8	98	80-120
Bromofluorobenzene	93	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	127269
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	1.000		

Type: BS Lab ID: QC396339

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	106.0	85	68-132
MTBE	25.00	22.61	90	71-120
Isopropyl Ether (DIPE)	25.00	21.57	86	65-120
Ethyl tert-Butyl Ether (ETBE)	25.00	20.85	83	75-124
1,2-Dichloroethane	25.00	24.72	99	79-121
Benzene	25.00	26.61	106	80-120
Methyl tert-Amyl Ether (TAME)	25.00	25.13	101	77-120
Toluene	25.00	28.60	114	80-120
1,2-Dibromoethane	25.00	24.56	98	80-120
Ethylbenzene	25.00	28.47	114	80-124
m,p-Xylenes	50.00	60.01	120	80-127
o-Xylene	25.00	28.49	114	80-124

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	100	79-134
Toluene-d8	99	80-120
Bromofluorobenzene	95	80-122

Type: BSD Lab ID: QC396340

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	101.2	81	68-132	5	20
MTBE	25.00	20.94	84	71-120	8	20
Isopropyl Ether (DIPE)	25.00	19.31	77	65-120	11	20
Ethyl tert-Butyl Ether (ETBE)	25.00	18.99	76	75-124	9	20
1,2-Dichloroethane	25.00	23.23	93	79-121	6	20
Benzene	25.00	24.42	98	80-120	9	20
Methyl tert-Amyl Ether (TAME)	25.00	22.78	91	77-120	10	20
Toluene	25.00	25.76	103	80-120	10	20
1,2-Dibromoethane	25.00	23.67	95	80-120	4	20
Ethylbenzene	25.00	26.65	107	80-124	7	20
m,p-Xylenes	50.00	55.95	112	80-127	7	20
o-Xylene	25.00	27.37	109	80-124	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-123
1,2-Dichloroethane-d4	96	79-134
Toluene-d8	95	80-120
Bromofluorobenzene	93	80-122

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	195986	Location:	Wadler Property
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2005-65	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC396341	Batch#:	127269
Matrix:	Water	Analyzed:	07/16/07
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	89	80-123
1,2-Dichloroethane-d4	97	79-134
Toluene-d8	91	80-120
Bromofluorobenzene	98	80-122

ND= Not Detected
RL= Reporting Limit

195986

Chain of Custody Record

Lab job no. _____
Date 7/12/07
Page 1 of 1

Laboratory CAT
Address 2323 Fifth St
Berkeley, CA

Method of Shipment Courier
Shipment No. _____
Airbill No. _____
Cooler No. _____
Project Manager R. Makdisi
Telephone No. (510) 644-3123
Fax No. (510) 644-3859
Samplers: (Signature) DA

Project Owner Laren Wadler
Site Address 2836 Union St
Oakland, CA
Project Name USTCF Claim #018639
Project Number 2005-65

	Field Sample Number	Location/ Depth	Date	Time	Sample Type	Type/Size of Container	Preservation: Cooler	Preservation: Chemical	Filtered	No. of Containers	Analysis Required: TPH-G (8015B)	BTEX/MTBE (8260B)	TBA, DIPE, ETBE, TAME (8260B)	EDC, EDB (8260B)	Remarks
-1	MW-1B		7/12/07	1220	W	6 x 40mL voas	Y	HCL		6	X	X	X	X	
-2	MW-2A			1120			Y	HCL		6	X	X			
-3	MW-2B			1015			Y	HCL		6	X	X	X	X	
-4	MW-3B			1245			Y	HCL		6	X	X			
-5	MW-4A			1115		2 x 250mL voas	Y	HCL		2	X	X			
-6	MW-4B			1200		6 x 40mL voas	Y	HCL		6	X	X			
-7	MW-5B			1310			Y	HCL		6	X	X			
-8	EDW-1			1330			Y	HCL		6	X	X			

Relinquished by:	Date	Received by:	Date	Relinquished by:	Date	Received by:	Date
Signature [illegible]	7/12/07	Signature [illegible] (Sample Custody)	7/12/07	Signature [illegible]	7/13/07	Signature [illegible]	7/13/07
Printed Devin Rayma	Time 1430	Printed Devin Rayma	Time 1530	Printed [illegible]	Time 1535	Printed Rick Graves	Time 1535
Company BTS		Company BTS		Company BTS		Company CAT	

Turnaround Time: _____
Comments: GLOBAL ID : T0600105641

Relinquished by: Signature _____ Printed _____ Company _____ Date _____ Time _____

Received by: Signature _____ Printed _____ Company _____ Date _____ Time _____

2000-00-01

2198 Sixth Street #201, Berkeley, CA 94710

★ Stellar Environmental Solutions

intact cold KC