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SECOND SEMIANNUAL 2010 GROUNDWATER MONITORING, ANNUAL SUMMARY, AND PRODUCT EXTRACTION REPORT

EMERYBAY CONDO PHASE I PARKING GARAGE
6400 CHRISTIE AVENUE
EMERYVILLE, CALIFORNIA

Prepared for:

EMERYBAY COMMERCIAL ASSOCIATION
EMERYVILLE, CA 94608

January 2011

STELLAR
ENVIRONMENTAL SOLUTIONS, INC.
GEOSCIENCE & ENGINEERING CONSULTING

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6475 CHRISTIE AVENUE, SUITE 550
EMERYVILLE, CA 94608

Prepared by:

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2198 SIXTH STREET
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January 4, 2011

Project No. 2007-65

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January 4, 2011

Mr. Mark Detterman
Hazardous Materials Specialist
Alameda County Department of Environmental Health
Local Oversight Program
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Second Semiannual 2010 Groundwater Monitoring, Annual Summary, & Product Extraction Report--EmeryBay Phase I Condo Parking Garage 6400 Christie Avenue, Emeryville, California

Dear Mr. Detterman:

Enclosed is the Stellar Environmental Solutions, Inc. report summarizing the site activities conducted between May 2010 and December 2010 at the above referenced site. This report is being submitted on behalf of the owner and Responsible Party, Emerybay Commercial Association. The subject site activities included an active product extraction event, three quarterly passive product removal events, and the second semiannual 2010 groundwater monitoring event.

While historical monitoring at the subject site had been sporadic, quarterly sampling conducted in 2008 firmly established hydrological and contaminant trends; therefore, in November 2009, the Alameda County Department of Environmental Health (ACEH) and the Responsible Party agreed that the sampling schedule would be reduced to semiannual events. This report summarizes the 13th sampling event conducted at the site since 1988. In accordance with regulatory requirements, an electronic copy of this report has been uploaded to ACEH and to the State Water Resources Control Board's GeoTracker system.

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,

Richard S. Makdisi, R.G., R.E.A.
Principal Geochemist/President

Ms. Kathryn Collins
Emerybay Commercial Association

TABLE OF CONTENTS

Section **Page**

TABLE OF CONTENTS (continued)

Section **Page**

Appendices

TABLES AND FIGURES

Tables **Page**

Figures **Page**

1.0 INTRODUCTION

PROJECT BACKGROUND

The subject property, located at 6400 Christie Avenue in Emeryville, California, is owned by the Emerybay Commercial Association, for which Stellar Environmental Solutions, Inc. (Stellar Environmental) provides environmental consulting services. The site has undergone fuel tank-related investigations and remediation since 1988 (by Stellar Environmental since 2007). All known environmental documents for the subject property are listed in the References and Bibliography section (Section 7.0) of this report. Previous remediation and investigation activities are outlined in the final subsection of this chapter.

SITE AND VICINITY DESCRIPTION

The project site is located at 6400 Christie Avenue in Emeryville, California (see Figure 1). The project site, which slopes to the south, is wholly developed with an open ground-floor parking area and apartment complex known as the Emery Bay Phase I Condos and parking garage. The area of monitoring and product extraction is primarily located in the northeastern portion of the parking garage. Figure 2 is a site plan. The site is bordered to the east by the Emery Bay Phase II Condos and parking garage, to the north by 65th Avenue, beyond Christie Avenue and to the west by the Bay Center Offices, and to the south by 64th Avenue. The surrounding area is developed with apartment complexes, offices, and commercial stores.

PREVIOUS INVESTIGATIONS

Historical groundwater well analytical results are presented in Appendix A, and are discussed in detail in Section 5.0 of this report.

The subject property parcel was developed as early as 1958 with the Garrett Motor Freight Station, associated with Delta Lines, Inc. The Delta Lines complex contained an “Oil and Gas” building, located at the site of the present-day Emery Bay Phase I Condo complex and parking garage. The building remained on the property until 1986, when it was demolished to build the present-day structures. Twelve underground fuel storage tanks (UFSTs) containing diesel and gasoline were removed from the Emery Bay Phase I and Phase II Condo complex parcels in 1987, at which time soil and groundwater contamination was discovered.

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SITE LOCATION ON AERIAL PHOTO

6400 Christie Ave.
Emeryville, CA

By: MJC | JANUARY 2008

Figure 1

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2007-65-01

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SITE PLAN AND ADJACENT LAND USE

6400 Christie Ave. Emeryville, CA	By: MJC	JANUARY 2008
	Figure 2	

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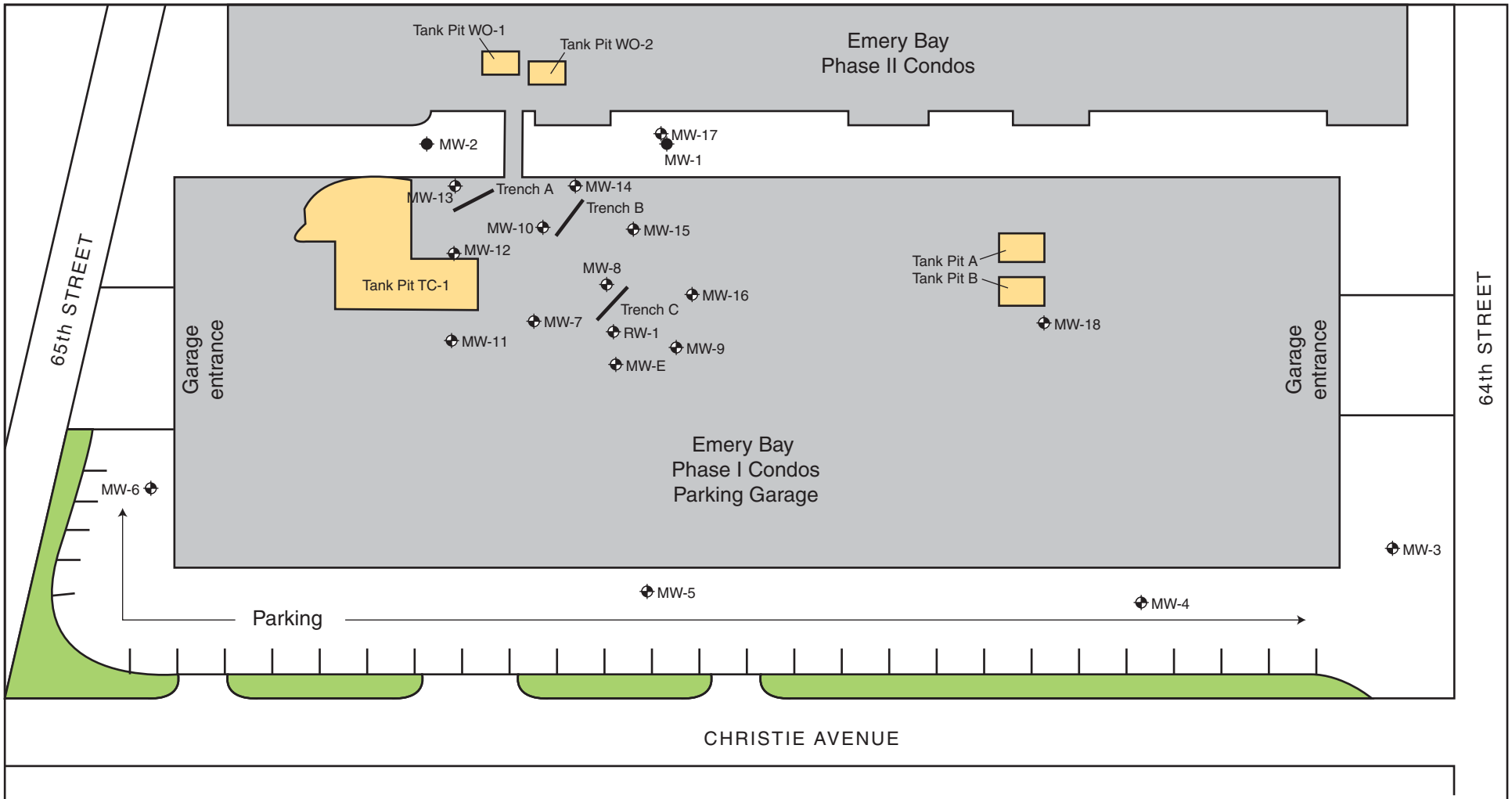
2007-65-07

The subsurface contamination originated from the trucking terminal that was operated by the Garrett Freight Line and Delta Lines, and existed at the site of the Bay Center Apartments before its development in the late 1980s. Site investigations identified a total of 12 UFSTs in three areas of the trucking terminal. These UFST areas were referred to as: 1) Tank Pits A and B (each containing one 10,000-gallon diesel tank); 2) Tank Pit TC-1 (four 12,000-gallon diesel tanks, two 10,000-gallon diesel tanks, and one 6,000-gallon gasoline tank); and 3) Tank Pit WO-1 and WO-2 (one 6,000-gallon tank, one 4,000-gallon tank, and one 1,000-gallon tank). Nine UFSTs were located beneath the current footprint of the Emery Bay Phase I Condo complex, while three were beneath the Emery Bay Phase II Condo complex. Figure 2 shows the historical locations where the tanks were removed.

To address the contamination in the garage area of the Emery Bay Phase I Condo complex, a light non-aqueous phase liquid (LNAPL) groundwater pump-and-treat system was installed by Groundwater Technology, Inc. (GTI) in 1989. The system extracted approximately 1 million gallons of groundwater, yielding approximately 100 gallons of LNAPL from recovery well RW-1 from July 1990 to March 1991. Three monitoring wells had previously been installed in 1985. GTI installed (and repaired) several more monitoring wells between 1987 and 1990, for a total of seven monitoring wells and one extraction well by 1990. The system and groundwater monitoring wells were designed and monitored as a condition of discharge permits granted by the East Bay Municipal Utility District (EBMUD) and the Bay Area Air Quality Management District (BAAQMD). The first groundwater monitoring event for MW-1 through MW-6 occurred in December 1988. The second monitoring event, which also included MW-E and RW-1, was conducted in March 1989. Subsequently, the groundwater extraction system operated by GTI was closed in late 1990 when corrosion and other mechanical problems caused the system to fail. Recovery of LNAPL continued manually on RW-1 until 1991, and a third groundwater sampling event occurred in February 1991. In 1994, the GTI recovery system was abandoned. Appendix A contains the historical analytical results. Figure 3 shows the locations of the monitoring wells and trenches.

No groundwater monitoring events had occurred at the site between 1991 and 2004, when PES Environmental, Inc. (PES) was retained to evaluate and implement remediation of the residual contamination at the TC-1 (former location of seven UFSTs) Emery Bay Phase I Condo complex area. (Note: Harding Lawson Associates conducted soil and groundwater sampling on the Phase II Apartment complex area during this time, but not for the purpose of product extraction or remediation.) In 2004, PES installed an additional 10 groundwater monitoring wells (monitoring wells MW-1 and MW-2 were either abandoned or paved over with asphalt during construction), bringing the current total to 17 monitoring wells and 1 extraction well in the Phase I parking garage area. The first groundwater monitoring event for the current wells was conducted in March 2004, and the second event was conducted in December 2006.



LEGEND

- Monitoring well
- Monitoring well (presumed abandoned)
- Trench location
- Historical tank pit area
- Landscaping

0 60

SCALE: 1/2" = 60 FEET

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MONITORING WELL AND TRENCH LOCATIONS

6400 Christie Ave., Emeryville, CA

Figure 3

by: MJC | JANUARY 2008

2007-65-02

A previous Stellar Environmental report (Stellar Environmental, 2007) fully discusses previous site remediation and investigations, site geology and hydrogeology, and residual site contamination. Tabular summaries of historical groundwater well water elevations and analytical results are included in Appendix A.

OBJECTIVES AND SCOPE OF WORK

This report discusses the following activities conducted/coordinated by Stellar Environmental in the current annual monitoring period:

- LNAPL passive product extraction from Trenches A and C, and active product extraction on select groundwater monitoring wells, trench sump wells, and recovery well RW-1
- Collection of water levels in site wells to determine groundwater flow direction
- Sampling of site wells for contaminant analysis
- Evaluation of hydrochemical and groundwater elevation trends in the context of plume stability and case closure assessment

REGULATORY OVERSIGHT

ACEH is the lead regulatory agency for the case, acting as a Local Oversight Program for the Regional Water Quality Control Board (Water Board). There are currently no ACEH or Water Board cleanup orders for the site; however, all site work has been conducted under the oversight of ACEH. ACEH assigned the site to its fuel leak case system (RO #2799), and the case officer was Ms. Barbara Jakub. In a November 2008 meeting with the Responsible Party (represented by Ms. Sarah Irving), Stellar Environmental (represented by Ms. Teal Glass and Mr. Richard Makdisi), and ACEH (represented by Ms. Jakub and Ms. Donna Drogas), it was agreed that quarterly sampling could be reduced to a semiannual schedule with the stipulation that an indoor air and preferential pathway study be completed. Stellar Environmental submitted a letter on November 24, 2008 to ACEH documenting the change in sampling frequency. The Indoor Air Survey and Preferential Pathway Report (Stellar Environmental, 2009b) was submitted to ACEH April 6, 2009. An additional Indoor Air Survey was conducted in March 2010 and submitted to ACEH in April 2010 to document the conditions observed in the February 2009 survey. On April 21, 2010, Stellar Environmental was informed that a new case officer, Mark Detterman, had been assigned to the site.

The case has been assigned No. SLT2O05561 in the Water Board's GeoTracker system. Electronic uploads of required data/reports are submitted to both agencies.

2.0 PHYSICAL SETTING

The following evaluation of the physical setting of the site—including topography, drainage, and geologic and hydrogeologic conditions—is based on previous (1986 through 2006) site investigations conducted by others, and site inspections and subsurface data collection by Stellar Environmental in 2007 and 2008.

TOPOGRAPHY AND DRAINAGE

The mean elevation of the property is about 13 feet above mean sea level, and the general topographic gradient in the vicinity of the property is to the southwest, although the regional gradient is to the west-southwest.

The nearest receiving water body is San Francisco Bay, located approximately 700 feet to the west of the subject property. East of the site lies the Oakland Hills, which rise to an elevation of approximately 1,000 feet and are situated 2.5 miles east of the subject property. The subject property is not listed within a 100- or 500-year flood zone.

Storm drains from the roof collect storm runoff for discharge onto the asphalt-paved parking lots. Drainage collected in storm sewers from the parking lot and from Christie, 64th, and 65th Streets discharges into San Francisco Bay. Stellar Environmental has noted several storm drains, in the parking lot area and on the surrounding streets.

GEOLOGY

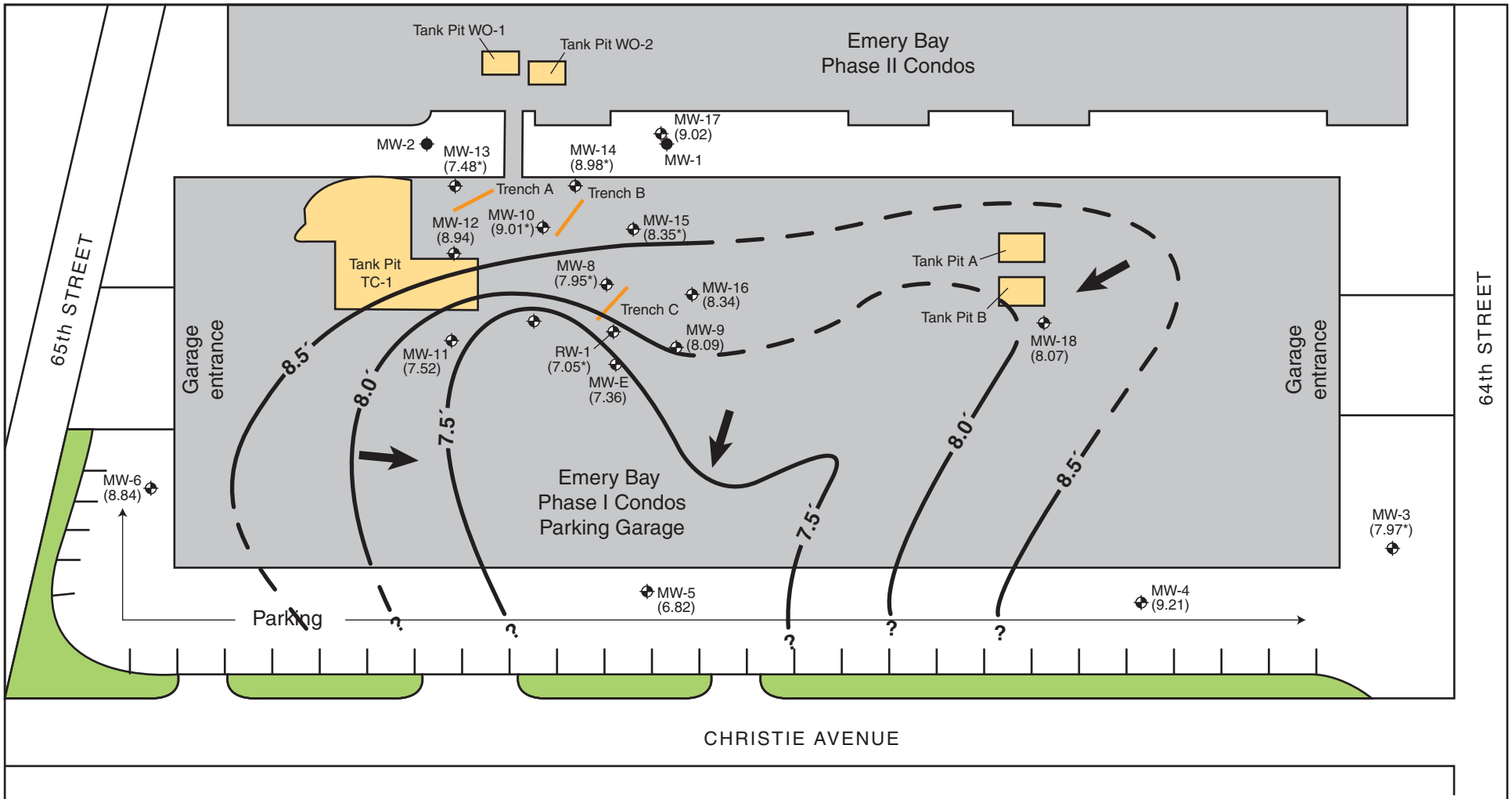
The subject property area is underlain with material mapped "Qhbm," designated early pleistocene alluvium, that is moderately consolidated, deeply weathered, poorly sorted, irregularly interbedded clay, silt, sand, and gravel. A geotechnical survey conducted in 1985 revealed that the upper 15 to 20 feet of soil consists of a combination of fill and soft bay sediment. The upper 1 to 2½ feet of soil is generally pavement and imported fill. This is underlain by approximately 20 feet of firm soil consisting of primarily dense silty sand with intermittent layers of silty and sandy clay. Stiff to very stiff clay lies a depth of approximately 40 feet and extends to the depth of the borings, approximately 101.5 feet (Geomatrix, 1988).

The closest major fault, the Hayward Fault, is located about 3 miles east of the property. While the site is located in a seismically active area, it is not within an Alquist-Priolo Special Studies active fault zone, the legislatively defined zone of restricted land use 200 feet around an active fault due to the high probability of ground rupture.

GROUNDWATER HYDROLOGY

Regulatory agency records indicate that the direction of shallow groundwater flow in the site vicinity is to the west-northwest, toward San Francisco Bay. However, water levels and flow direction in this area are influenced by tidal patterns, and the groundwater gradient measured during the September 2010 monitoring event ranged from the southwest (on the northern portion of the site) to the west (on the central portion of the site) to the northwest (on the southern portion of the site). The apparent "sink" around monitoring well MW-5 may also possibly be a result of the top of casing vertical elevation reflecting a slight survey error. According to current and historical water level data obtained from onsite monitoring wells, depth to groundwater ranges from approximately 6 to 11 feet below ground surface (bgs). Groundwater elevations during the September 2010 event ranged from 6.82 to 9.21 feet above mean sea level. The average groundwater gradient was 0.001 foot/foot.

Figure 4 is a groundwater elevation map from the recent groundwater-monitoring event (activities discussed in Section 4.0).



LEGEND

- Monitoring well
- Monitoring well (presumed abandoned)
- Trench location
- Groundwater elevation contour in feet amsl
- Historical tank pit area
- Landscaping
- Inferred direction of groundwater flow
- Extrapolated groundwater elevation contour
- * Groundwater elevation not used in determining contour due to the presence of free product
- NM = Depth to groundwater could not be measured due to the presence of tar

0 40

SCALE: 1/2" = 40 FEET

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GROUNDWATER ELEVATION MAP — September 22, 2010

6400 Christie Ave., Emeryville, CA

Figure 4

by: MJC | DECEMBER 2010

2007-65-44

3.0 SEPTEMBER 2010 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

This section presents the groundwater sampling and analytical methods for the most recent event. Table 1 summarizes monitoring well construction and groundwater monitoring data. Groundwater analytical results are summarized in Section 4.0.

SAMPLING METHODS AND ACTIVITIES

Activities for this event include:

- Measuring static water levels in all 18 wells
- Collecting post-purge groundwater samples from the 18 wells for laboratory analysis of the following contaminants:
  - benzene, toluene, ethyl benzene, and xylenes (BTEX)
  - methyl tertiary-butyl ether (MTBE)
  - total petroleum hydrocarbons as gasoline (TPHg)
  - total petroleum hydrocarbons as diesel (TPHd)

The site monitoring well sampling locations are shown on Figure 3. Well construction information and water level data are summarized in Table 1. Appendix B contains the groundwater monitoring field records.

CURRENT MONITORING EVENT

Blaine Tech Services conducted groundwater monitoring well water level measurements, purging, sampling, and field analyses on September 22, 23, and 24 under the supervision of Stellar Environmental personnel. Groundwater sampling was conducted in accordance with State of California guidelines for sampling dissolved analytes in groundwater associated with leaking UFSTs. As the first task of the monitoring event, static water levels and free product levels were measured in the 18 wells using an electric water level indicator. The depth of free product was recorded, and the water level was adjusted to reflect the groundwater elevation.

Table 1
Groundwater Monitoring Well Construction and Groundwater Elevation Data
6400 Christie Avenue, Emeryville, California

Well	Well Depth (feet bgs)	Screened Interval	Top of Well Casing Elevation [a]	Depth to Free Product (TOC)	Thickness of Free Product (feet)	Groundwater Elevation (September 22, 2010)
MW-3	25	5 to 20	16.65	(b)	(b)	7.97
MW-4	25	5 to 20	16.29	NA	NA	9.21
MW-5	25	5 to 20	16.72	NA	NA	6.82
MW-6	25	5 to 20	16.82	NA	NA	8.84
MW-7	20	5 to 20	17.73	NA	NA	7.14
MW-8	16	5 to 16	17.84	9.75	0.14	7.95
MW-9	20	5 to 20	17.84	NA	NA	8.09
MW-10	20	5 to 20	17.83	8.76	0.06	9.01
MW-11	20	5 to 20	17.76	NA	NA	7.52
MW-12	20	5 to 20	17.83	NA	NA	8.94
MW-13	20	5 to 20	17.66	9.40	0.78	7.48
MW-14	20	5 to 20	17.60	8.56	0.06	8.98
MW-15	20	5 to 20	17.80	9.42	0.03	8.35
MW-16	20	5 to 20	17.74	NA	NA	8.34
MW-17	20	5 to 20	18.17	NA	NA	9.02
MW-18	20	5 to 20	16.35	NA	NA	8.07
MW-E	47	7 to 40	17.47	NA	NA	7.36
RW-1	30	unknown	16.70	9.50	0.15	7.05
TA-E	11-13	6-8 to 11-13	17.20	NM	NM	NM
TA-M	11-13	6-8 to 11-13	17.21	NM	NM	NM
TA-W	11-13	6-8 to 11-13	17.28	NM	NM	NM
TB-E	11-13	6-8 to 11-13	17.24	NM	NM	NM
TB-M	11-13	6-8 to 11-13	17.30	NM	NM	NM
TB-W	11-13	6-8 to 11-13	17.33	NM	NM	NM
TC-E	11-13	6-8 to 11-13	17.07	NM	NM	NM
TC-M	11-13	6-8 to 11-13	17.37	NM	NM	NM
TC-W	11-13	6-8 to 11-13	17.32	NM	NM	NM

Notes:

[a] Relative to mean sea level.

[b] Depth to groundwater and/or of free product could not be determined because free product density would not allow a clear delineation.

bgs = below ground surface
TOC = below top of casing
NA = not applicable (no free product in well)
NM = depth to groundwater and/or free product could not be determined due to the presence of tar

MW-3 through MW-6 and MW-E are 2-inch PVC. MW-7 through MW-18 are ¾-inch PVC. RW-1 is 10-inch PVC.

Approximately 40 gallons of purge water and equipment decontamination rinse water from the current groundwater sampling event was containerized onsite in a labeled 55-gallon drum. In addition, approximately 1,050 gallons of groundwater yielding approximately 19.6 gallons of free product was removed during the September 2010 active product removal event as wells as 0.45 gallon removed passively from the skimmers. All purged groundwater and free product from the active product removal event were containerized in the 1,100-gallon onsite aboveground storage tank (AST). On September 30, 2010, Evergreen Oil, Inc. vacuumed and transported all of the water and product to its recycling facility under manifest number 006400294 (EPA Generator ID No. CAL000331636). Appendix F contains copies of the manifest and recycling certificate.

4.0 REGULATORY CONSIDERATIONS, ANALYTICAL RESULTS, AND DISCUSSION OF FINDINGS

This section presents the analytical results of the most recent monitoring event and summarizes the relevant regulatory considerations. Appendix C contains the certified analytical laboratory report and chain-of-custody record.

REGULATORY CONSIDERATIONS

As specified in the East Bay Plain Groundwater beneficial Use Evaluation Report by the San Francisco Bay Region Water Board (Water Board, 1999), all groundwater is considered a potential source of drinking water unless otherwise indicated by the Water Board, and is assumed to ultimately discharge to a surface water body and potentially impact aquatic organisms. The subject property is listed as occurring within Zone B, designated as groundwater that is unlikely to be used as a drinking water resource. The basin is shallow in this area, with depths of less than 300 feet. Groundwater in this area is used for backyard irrigation, industrial supply, and commercial irrigation. There is a low likelihood that this water will be used as a public water supply in the near future.

The Water Board publishes Environmental Screening Levels (ESLs) for residential and commercial/industrial properties where groundwater is/is not a potential drinking water resource. As stipulated in the ESL document (Water Board, 2008), ESLs are not cleanup criteria; rather, they are conservative screening-level criteria designed to be protective of both drinking water resources and aquatic environments. 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 (e.g., monitoring plume stability to demonstrate no risk to sensitive receptors where drinking water is not threatened) may be warranted. Because the subject property is a residential property where groundwater is not a potential drinking water resource, the contaminant levels at the site will be compared to the ESLs for these criteria.

Contaminants detected above the ESLs during this sampling event include gasoline, diesel, benzene, toluene, ethylbenzene, and total xylenes. In general, concentrations of gasoline have decreased in the majority of the wells from the last sampling event; however, concentrations of

diesel have increased, with historic highs observed in eight of the wells (MW-4, MW-5, MW-9, MW-12, MW-13, MW-15, MW-16, and MW-18).

GROUNDWATER SAMPLE RESULTS

Table 2 and Figure 5 summarize the contaminant analytical results of the current monitoring event samples.

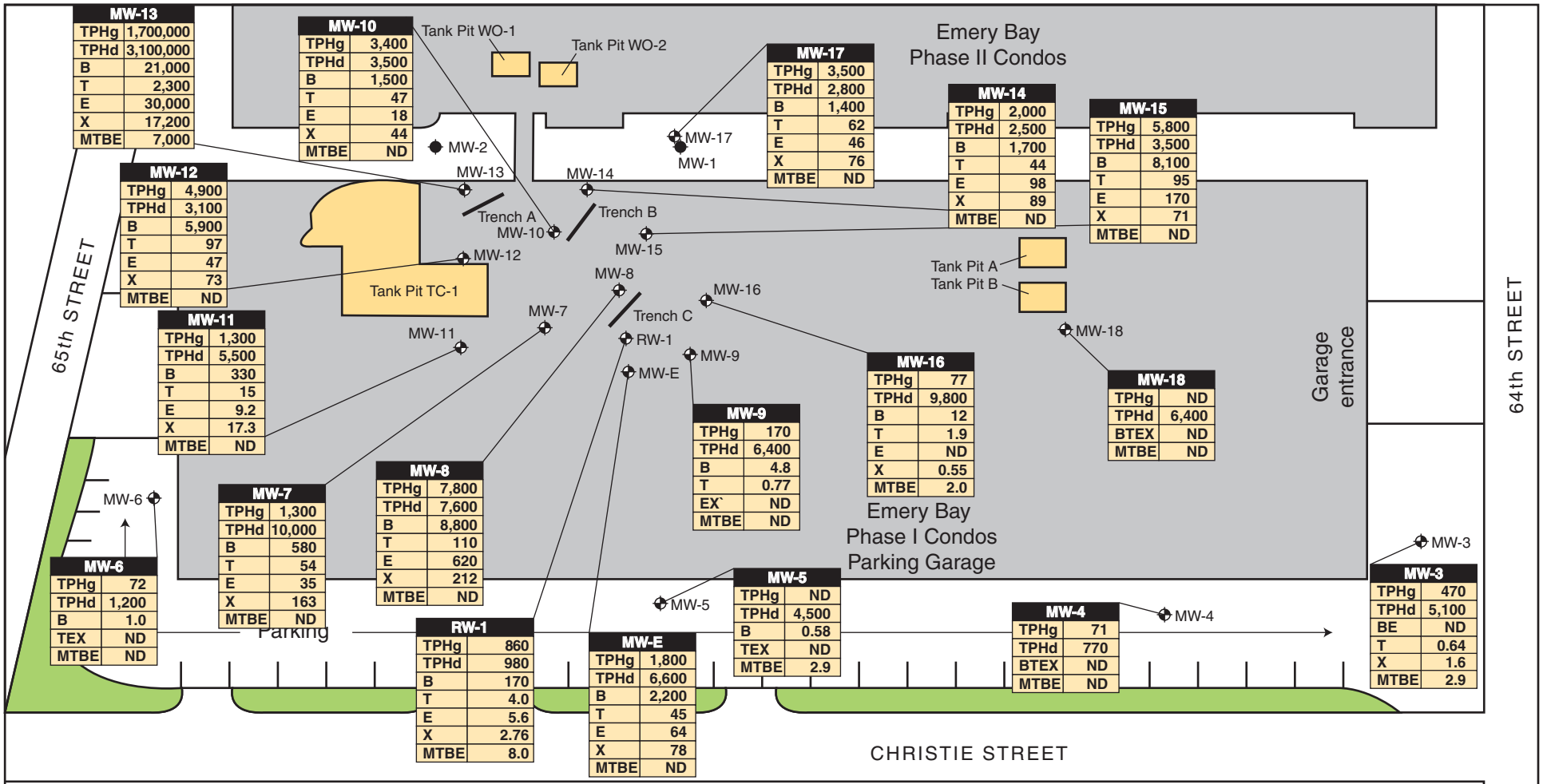
Table 2
Groundwater Sample Analytical Results – September 22, 23, and 24, 2010
6400 Christie Avenue, Emeryville, California

Well ID	Analytical Results						
	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-3	**470**	**5,100**	<0.5	0.64	<0.5	1.6	2.9
MW-4	71	**770**	<0.5	<0.5	<0.5	<0.5	<2.0
MW-5	<50	**4,500**	0.58	<0.5	<0.5	<0.5	2.0
MW-6	72	**1,200**	1.0	<0.5	<0.5	<0.5	<2.0
MW-7	**1,300**	**10,000**	**580**	54	35	**163**	<20
MW-8	**7,800**	**7,600**	**8,800**	110	**620**	**212**	<100
MW-9	170	**6,400**	4.8	0.77	<0.5	<0.5	<2.0
MW-10	**3,400**	**3,500**	**1,500**	47	18	44	<40
MW-11	**1,300**	**5,500**	**330**	15	9.2	17.3	<2.0
MW-12	**4,900**	**3,100**	**5,900**	97	**47**	73	<100
MW-13	**1,700,000**	**3,100,000**	**21,000**	**2,300**	**30,000**	**17,200**	**7,000**
MW-14	**2,000**	**2,500**	**1,700**	44	**98**	89	<40
MW-15	**5,800**	**3,500**	**8,100**	95	**170**	71	<100
MW-16	77	**9,800**	12	1.9	<0.5	0.55	2.0
MW-17	**3,500**	**2,800**	**1,400**	62	**46**	**76**	<40
MW-18	<50	**6,400**	<0.5	<0.5	<0.5	<0.5	<2.0
MW-E	**1,800**	**6,600**	**2,200**	45	**64**	78	<50
RW-1	**860**	**980**	**170**	4.0	5.6	2.76	8.0
ESLs [(a)]	**100 / 210**	**100 / 210**	**1.0 / 46**	**40 / 130**	**30 / 43**	**20 / 100**	**5.0 / 1,800**

Notes:

[(a)] Water Board Environmental Screening Levels for residential sites where groundwater is/is not a drinking water resource (Water Board, 2008).

MTBE = methyl tertiary-butyl ether
TPHd = total petroleum hydrocarbons – diesel range (equivalent to total extractable hydrocarbons – diesel range)
TPHg = total petroleum hydrocarbons – gasoline range (equivalent to total volatile hydrocarbons – gasoline range)
All concentrations are expressed in micrograms per liter (µg/L), equivalent to parts per billion (ppb).
Results listed in **bold-face type** are at or above the ESLs where groundwater is not a drinking water resource.



LEGEND

- Monitoring well
- Monitoring well (presumed abandoned)
- Trench location
- Historical tank pit area
- Landscaping

TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
ND = Below the laboratory detection limit
MTBE = Methyl Tertiary Butyl Ether

All concentrations in micrograms per liter (µg/L)

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GROUNDWATER MONITORING WELL ANALYTICAL RESULTS — September 2010
6400 Christie Ave., Emeryville, CA

Figure 5

by: MJC | DECEMBER 2010

2007-65-45

Petroleum Hydrocarbon Contaminants

During the September 2010 sampling event, several wells had reported hydrocarbon concentrations greatly in excess of the Water Board ESLs. However, hydrocarbon concentrations in wells can be significantly affected by the purging of accumulated hydrocarbons product, so large swings in concentration (both reductions and increases) could be seen due to this occurrence.

Gasoline was detected in MW-3, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-17, MW-E, and RW-1 above the ESL where groundwater is not a drinking water resource (210 micrograms per liter [µg/L]). Gasoline was also detected in MW-4, MW-6, MW-9 and MW-16, but at concentrations below the ESL. The highest concentration (1,700,000 µg/L) was observed in MW-13. This concentration is well below the 2,700,000 µg/L maximum concentration observed during the December 2008 event, but above both the 43,000 µg/L observed last quarter (March 2010) and the 1,400,000 µg/L observed the same time last year.

Figure 6 shows an isoconcentration contour map of TPHg concentrations in groundwater based on the September 2010 monitoring well analytical results. Figure 8 plots the change in diesel concentrations in the two downgradient wells (MW-5 and MW-6) from February 1991 (the terminus of the pump-and-treat system) to the September 2010 sampling event. Figure 9 plots the change in diesel concentrations in source area wells MW-11 and MW-12 from their first sampling event in December 2006 to the September 2010 sampling event. Figure 10 plots the change in crossgradient wells MW-18 and MW-3 from December 2006 to date.

Increases in gasoline concentrations compared to the previous March 2010 monitoring event were observed in wells MW-3, MW-4, MW-6, MW-7, MW-9, MW-13, MW-16, MW-18, and RW-1; and decreases were observed in wells MW-8, MW-10, MW-11, MW-12, MW-14, MW-15, MW-17, and MW-E. The concentrations in perimeter well MW-5 remained the same. When comparing the concentrations to the September 2009 sampling event, wells MW-8 and MW-11 had showed decreases and perimeter well MW-5 remained the same. The remaining 15 wells had increases in the gasoline concentration.

Diesel was detected in all site wells above the ESL of 210 µg/L (where groundwater is not a drinking water resource). The highest concentration (3,100,000 µg/L) was observed in MW-13. This is a new historic maximum for this well. Increased diesel concentrations compared to the previous March 2010 monitoring event were observed in wells MW-3, MW-4, MW-5, MW-6, MW-7, MW-13, MW-E, and RW-1; and decreases were observed in wells MW-8, MW-9, MW-10, MW-11, MW-12, MW-14, MW-15, MW-16, MW-17, and MW-18. When comparing the concentrations to the September 2010 sampling event, wells MW-3, MW-4, MW-7, MW-12, MW-13, MW-14, MW-15, MW-E, and RW-1 exhibited increases; wells MW-5, MW-6, MW-8, MW-9, MW-10, MW-

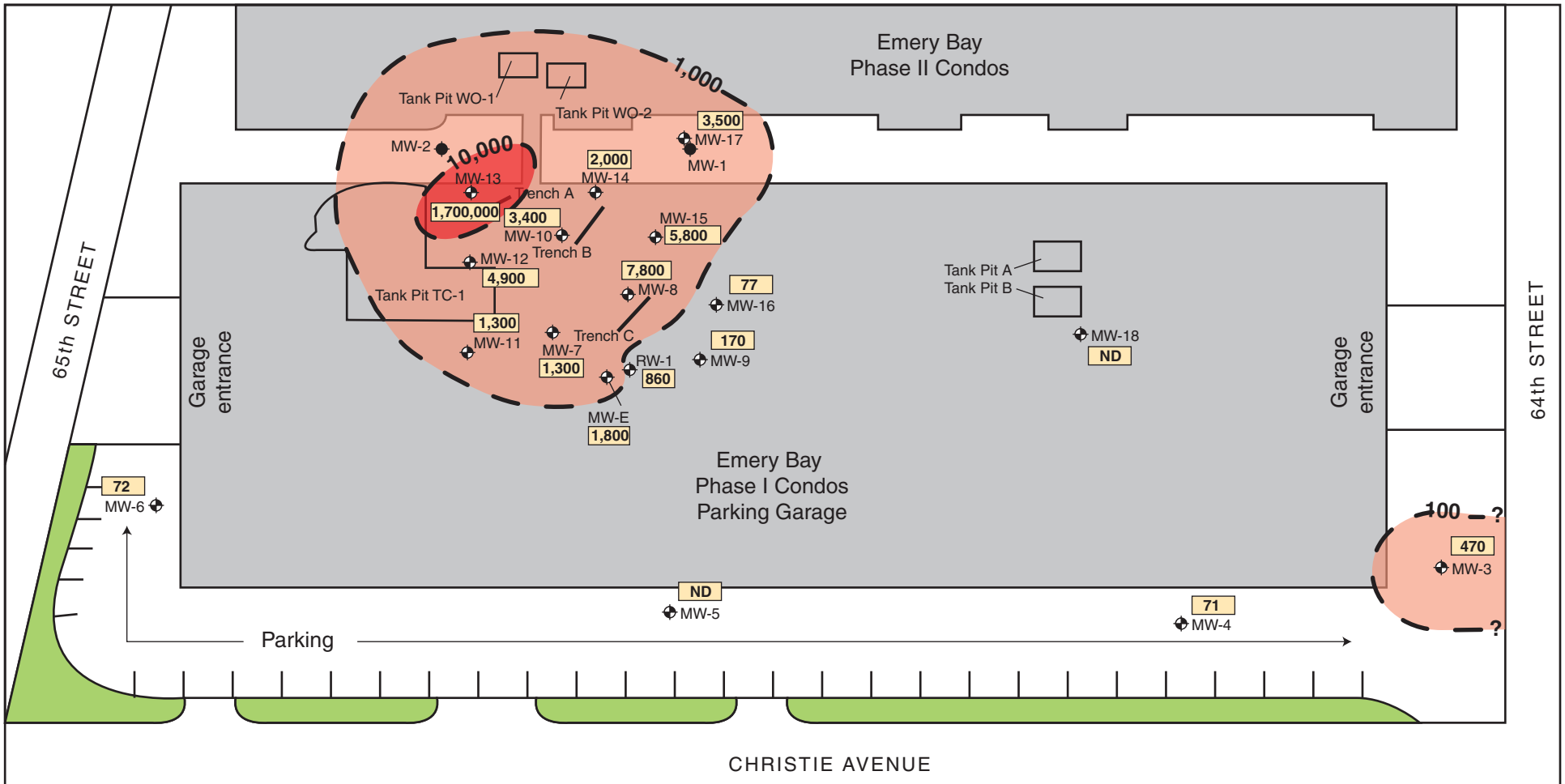
11, MW-16, MW-17, and MW-18 showed decreases. Figure 7 is an isoconcentration contour map of TPHd concentrations in groundwater based on the September 2010 monitoring well analytical results.

Benzene concentrations exceeded the benzene ESL of 46 µg/L (where groundwater is not a likely drinking water resource) in MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-17, MW-E, and RW-1. Benzene was also reported in MW-5, MW-6, MW-9, and MW-16, but at concentrations below the ESL.

Toluene was detected above the ESL of 130 µg/L in monitoring well MW-13. Ethylbenzene was detected above the 43-µg/L ESL (where groundwater is not a drinking water resource) in monitoring wells MW-8, MW-12, MW-13, MW-14, MW-15, MW-17, MW-E, and RW-1. Total xylene concentrations in monitoring wells MW-7, MW-8, MW-13, and MW-17 were above the 100-µg/L ESL where groundwater is not a drinking water resource. MTBE was detected above the ESL of 1,800 µg/L in MW-13.

Quality Control Sample Analytical Results

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



LEGEND

- Monitoring well
- Monitoring well (presumed abandoned)
- Trench location
- 84 — Total petroleum hydrocarbons as gasoline concentration in micrograms per liter (µg/L)
- Historical tank pit area
- Landscaping
- 100 — Gasoline isoconcentration contour

0 60

SCALE: 1/2" = 60 FEET

N

STELLAR ENVIRONMENTAL SOLUTIONS, INC
GEOSCIENCE & ENGINEERING CONSULTING

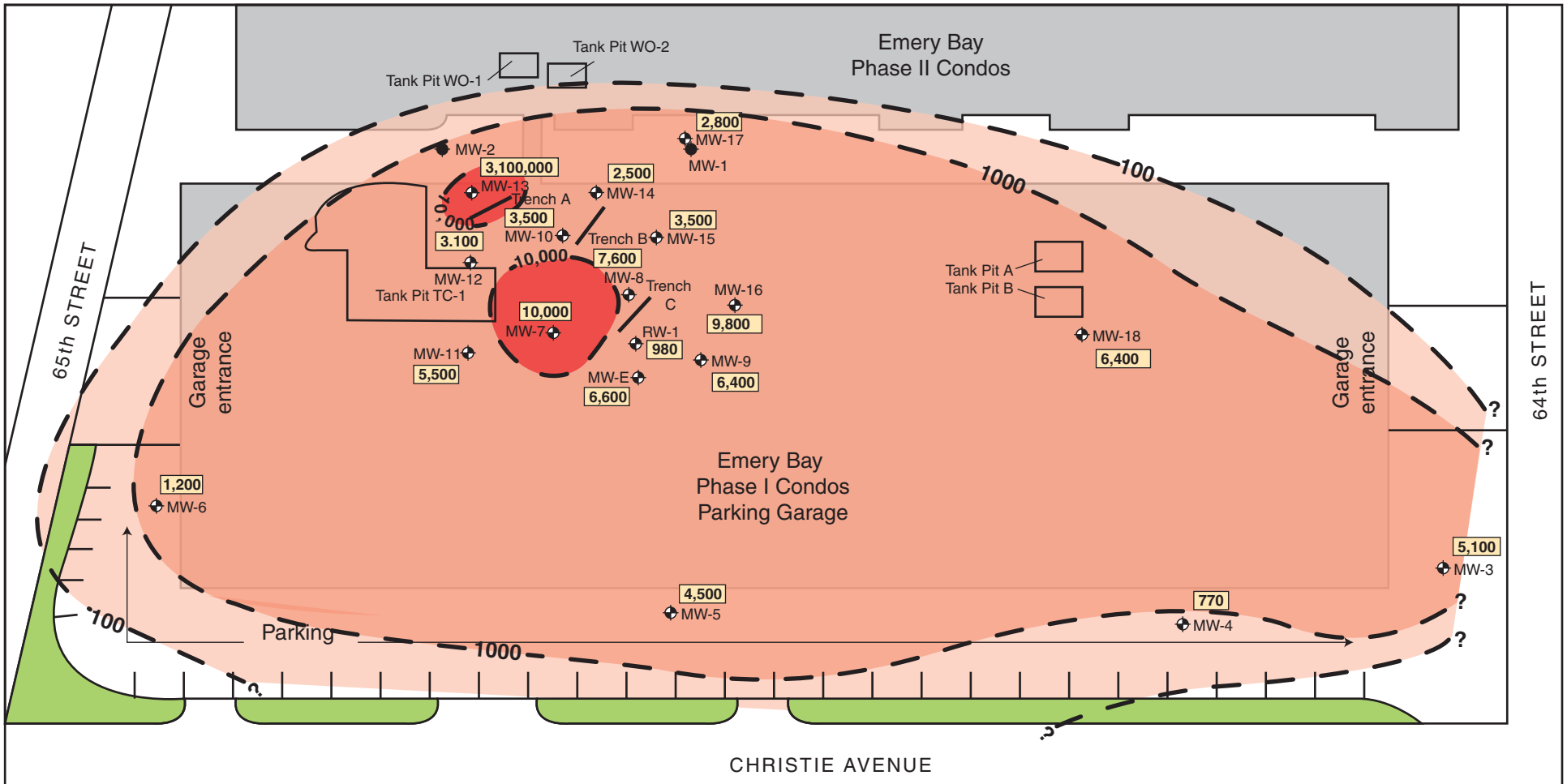
TOTAL PETROLEUM HYDROCARBON PLUME AS GASOLINE

6400 Christie Ave., Emeryville, CA

Figure 6

by: MJC | DECEMBER 2010

2007-65-46



LEGEND

- Monitoring well
- Monitoring well (presumed abandoned)
- Trench location
- 1,100 — Total petroleum hydrocarbons as diesel concentration in micrograms per liter (µg/L)
- Historical tank pit area
- Landscaping
- 100 — Diesel isoconcentration contour

0 60

SCALE: 1/2" = 60 FEET

N

STELLAR ENVIRONMENTAL SOLUTIONS, INC
GEOSCIENCE & ENGINEERING CONSULTING

TOTAL PETROLEUM HYDROCARBON PLUME AS DIESEL

6400 Christie Ave., Emeryville, CA

Figure 7

by: MJC | DECEMBER 2010

2007-65-47

Figure 8
Historical Groundwater Analytical Results
Total Petroleum Hydrocarbons as Diesel (TPHd)
Downgradient Wells MW-5 and MW-6
February 1991 - December 2010

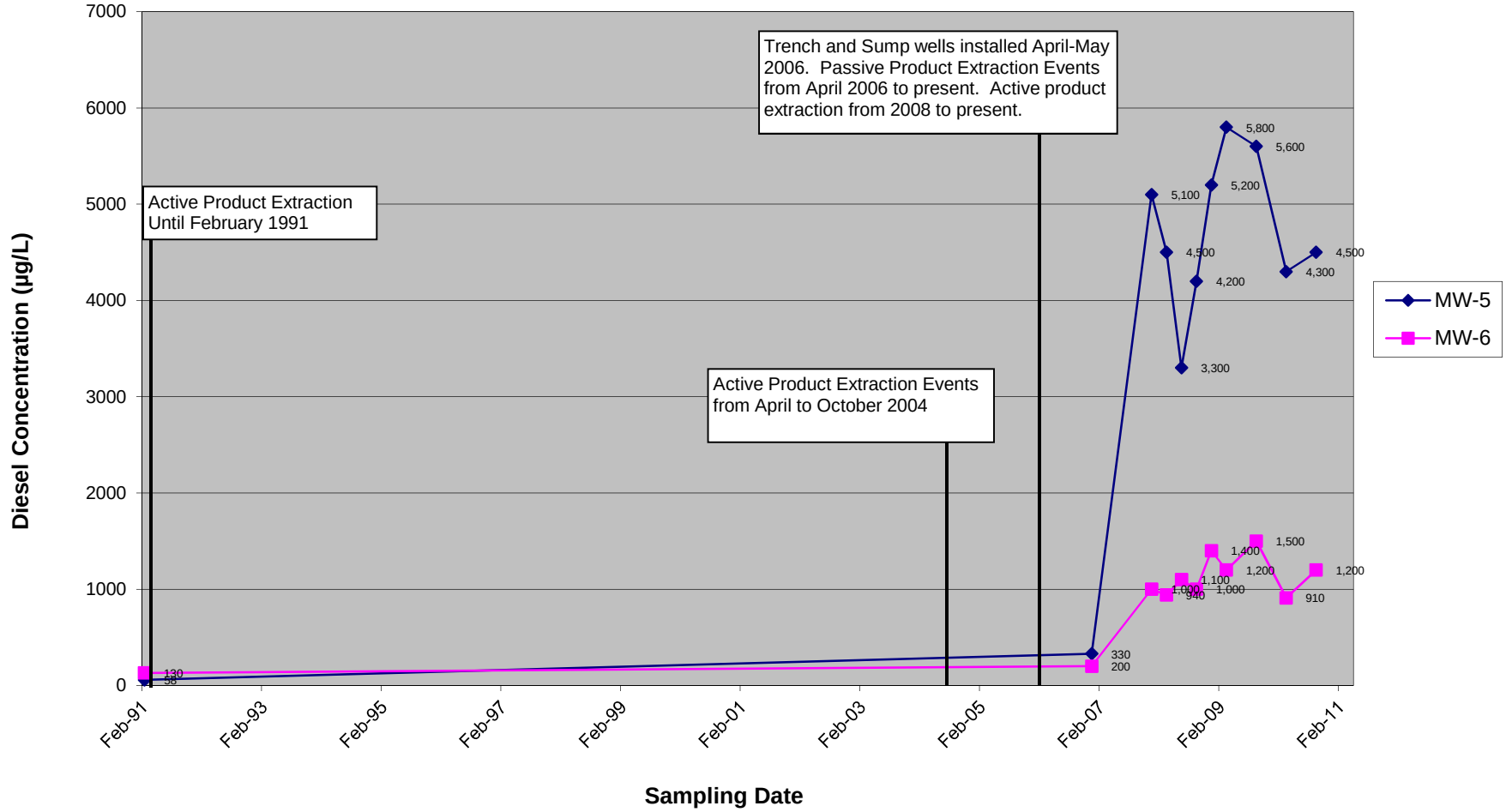


Figure 9
Historical Groundwater Analytical Results
Total Petroleum Hydrocarbons as Diesel (TPHd)
Source Wells MW-11 and MW-12
December 2006 - December 2010

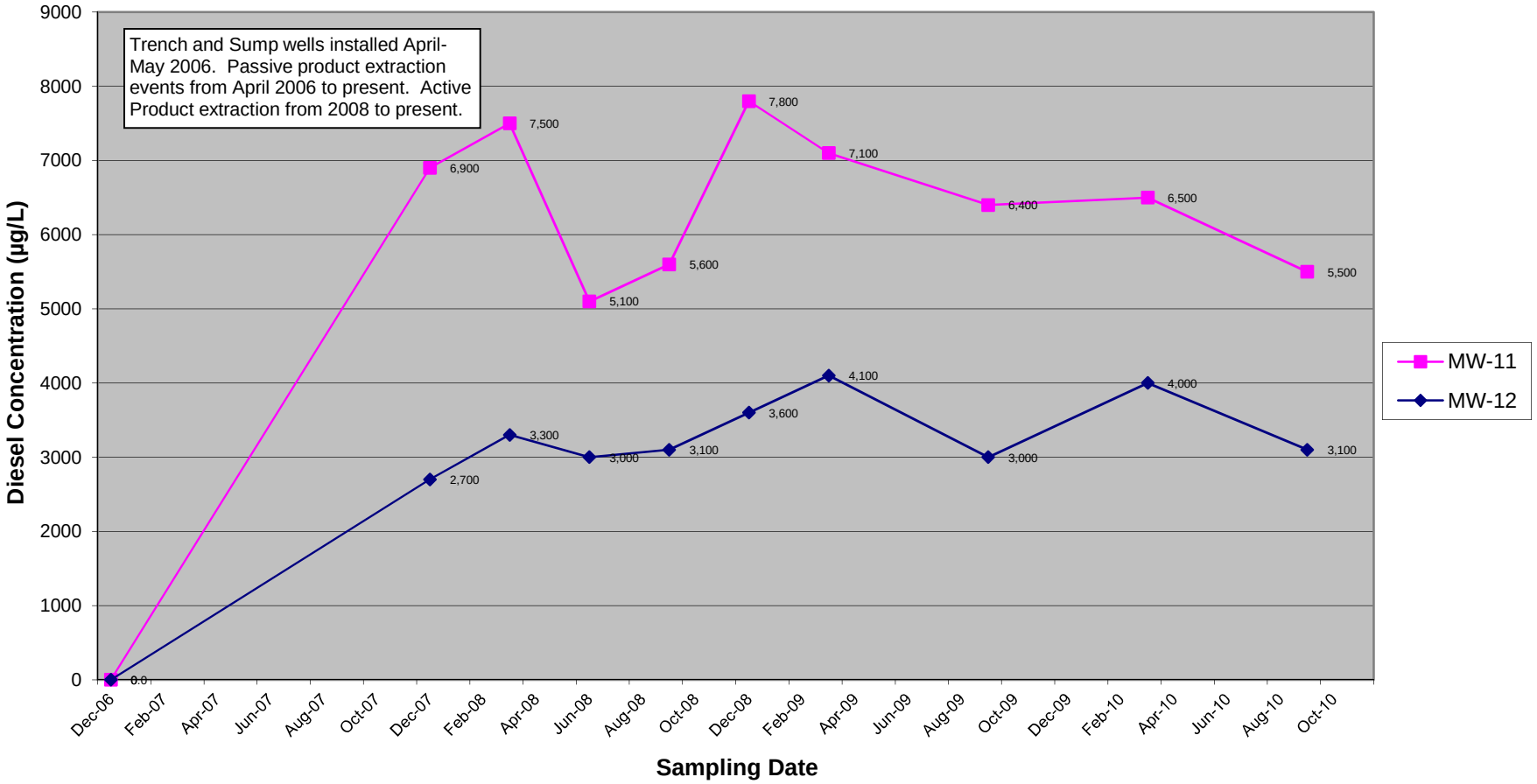
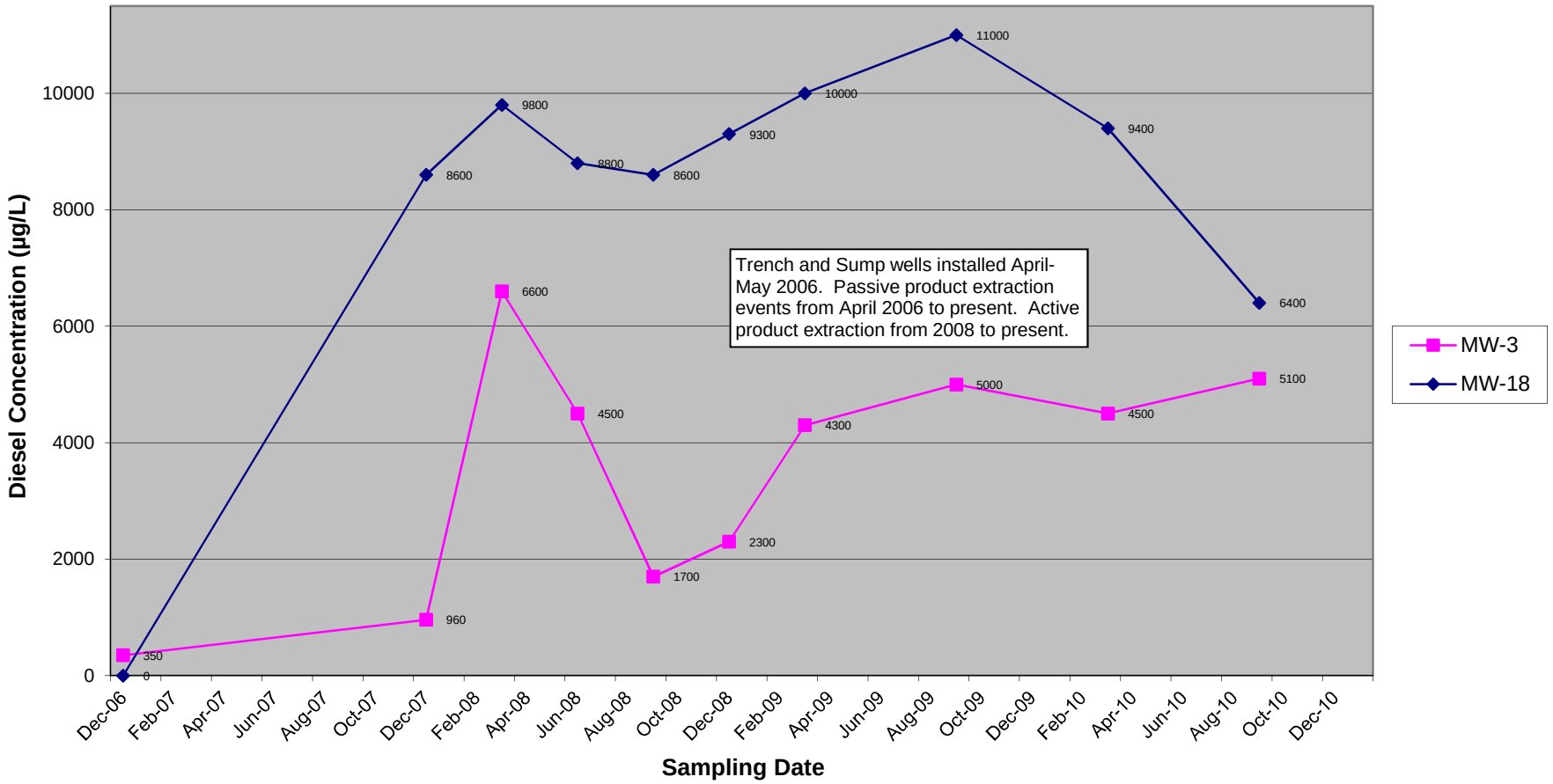


Figure 10
Historical Groundwater Analytical Results
Total Petroleum Hydrocarbons as Diesel (TPHd)
Crossgradient Well MW-3 and MW-18
December 2006 - December 2010



5.0 FREE-PHASE HYDROCARBON PRODUCT REMEDIATION SYSTEM

This section describes the extraction of the historical free product in the Emery Bay Phase I Condo parking garage, the construction details of the current LNAPL remediation system located on the northeastern portion of the garage, and the most recent product removal activities conducted on June 18, 2010; September 20 and 21, 2010 (immediately prior to the sampling event); and December 17, 2010. Tables 3 and 4 summarize the product removed during the passive and active product removal events, respectively. Appendix E summarizes historical product removal.

LNAPL REMEDIATION SYSTEM CONSTRUCTION

In an attempt to maximize free product removal, PES constructed three trenches, each containing three sump wells, in the northeastern area of the Emery Bay Phase I Condo parking garage. Historically, this area has had the highest concentrations of contamination and accumulation of free product. The trenches (TA, TB, and TC) extend to depths of approximately 12.5 to 13 feet bgs, while the collection sumps (TA-W, TA-M, TA-E, TB-W, TB-M, TB-E, TC-W, TC-M, and TC-E) extend to approximately 11 to 13 feet bgs. The sumps were constructed using 10-inch-diameter schedule 40 polyvinyl chloride (PVC) casing. Blank casing was used from approximately 0.5 feet bgs to between 6 and 8 feet bgs. Slotted 0.06-inch PVC was used from between 6 and 8 feet bgs to 6 inches from the total depth of the trench. The trenches were then backfilled with high-porosity, high-permeability gravel designed to promote LNAPL migration (PES, 2007). Passive skimmers, manufactured by QED Environmental Systems (of Oakland, California) were then placed in each of the sumps in Trench A and in one of the sumps (TC-E) in Trench C.

The skimmers operate by floating on the surface of the water. Water and free product collect in a filtration reservoir, which allows water to pass through. A tube connected to the reservoir then filters the collected free product into a collection reservoir located below the water surface. The reservoir can be emptied by opening a valve located on the bottom of the cylindrical shaped reservoir. Each of these skimmers is attached to the sump lid by a rope, and can be removed and transferred to another sump as needed.

HISTORICAL FREE PRODUCT EXTRACTION

As mentioned under the "Previous Investigations" subsection in Section 1.0, in approximately 1986, contaminated soil and groundwater were discovered during the removal of 12 UFSTs from the Emery Bay Phase I and Phase II parcels. To dewater the excavation during the Phase I and Phase II Condo construction, a groundwater extraction and remediation system was installed by GTI in 1988. Approximately 1 million gallons of water yielding 100 gallons of hydrocarbon product was removed from RW-1 during its operation (PES, 2007). However, corrosion and other mechanical problems caused the system to fail in 1991, and it was decommissioned in 1994. In February 2008, Stellar Environmental removed all of the old parts of the system from the well vault.

In 2004, PES began manual extraction on RW-1, and was reported to have removed approximately 48 gallons of LNAPL (PES, 2004a) in one day—although it appears to be clear by the better defined recovery in 2008 and 2009 that the volume of free product indicated to have been recovered at that well appears unrealistically high, most likely reflecting a mixture of hydrocarbon product mixed with water. To attempt to accelerate free product removal, PES constructed a new LNAPL hydrocarbon remediation system (described below) between April and May 2004 (PES, 2007). Several extraction events were conducted by PES from May 2004 through March 2007; the extraction events yielded a total of approximately 51 gallons of LNAPL. No extraction events were conducted by PES in 2005; approximately 50 gallons of hydrocarbons was removed in 2006; and approximately 0.6 gallon of hydrocarbons was removed by PES between January and November 2007. In November and December 2007, after Stellar Environmental was retained for the project, the skimmer system only yielded 2.82 gallons. Figure 11 graphs the comparison of free product extraction on a yearly basis.

It should be noted that no historical product extraction reports were provided to Stellar Environmental by the previous owner or by PES. Therefore, there is little to no information on how active product extraction occurred during 2004 and 2006. Based on better defined recovery in 2008 and 2009 the volume of free product indicated to have been recovered by the system during 2004 and 2006 appears unrealistically high, suggesting again that free-phase project mixed with water was reported as free-phase product recovery.

ACTIVE AND PASSIVE PRODUCT REMOVAL EVENTS

Historical yield from the trench recovery system has been unproductive, with the 1-liter passive skimmer collection reservoirs not filling up completely, or filling up with water rather than product. The highest hydrocarbon product yield has occurred from active pumping on recovery well RW-1 or at various other wells. Table 3 shows the allocation of free product removed from the collection skimmers in Trenches A and C. Table 4 shows the total amount of product actively removed by pumping based on the total amount of groundwater/product removed in September 2010.

A total of 0.75 gallon of free product was removed passively from one of the skimmers located in TA-M on June 18, 2010. The other skimmer was filled with water. The skimmers located in trench well TA-W were both empty. The skimmers located in trench wells TA-E and TC-E were all filled with water. Stellar Environmental conducted both passive and active product removal events during the 2 days prior (September 20 and 21) to the groundwater sampling event (September 22, 23, and 24) to determine the recharge rate of free product in wells. A total of approximately 828.25 gallons of groundwater yielding approximately 19.6 gallons (Table 4) of free product were removed during the September 2010 active product removal event, in addition to 0.45 gallons (Table 3) removed passively from the skimmers. A sample taken from the AST on September 22, 2010 contained TVHg at 10,000 µg/L; TEHmo at 2,800 µg/L, and TEHd at 14,000 µg/L.

Table 3
Passive Trench Product Extraction – June 18, September 20, and December 17, 2010

Trench ID	Number of Skimmers in Well	Total Product Removed (gallons)		
		June 18, 2010	September 20, 2010	December 17, 2010
TA-E	2	NM	0.1	0.1
TA-M	2	0.75	0.1	0.0
TA-W	2	NM	0.25	0.05
TB-E	0	NM	NM	NM
TB-M	0	NM	NM	NM
TB-W	0	NM	NM	NM
TC-E	1	NM	0.0	0.0
TC-M	0	NM	NM	NM
TC-W	0	NM	NM	NM
Total Product Removed		**0.75**	**0.45**	**0.15**

Notes:
NM = Not measured. No skimmer was located in the well, or no product was present.

Table 4
Active Product Extraction – September 2010

Well	Total Gallons of Product Removed	Well	Total Gallons of Product Removed
MW-3	0.30	MW-17	1.00
MW-4	0.20	MW-18	0.02
MW-5	0.40	MW-E	0.10
MW-6	0.50	RW-1	6.90
MW-7	0.01	TA-E	1.00
MW-8	0.50	TA-M	1.00
MW-9	0.01	TA-W	1.00
MW-10	0.50	TB-E	0.30
MW-11	NP	TB-M	0.30
MW-12	1.60	TB-W	0.40
MW-13	0.02	TC-E	1.00
MW-14	0.01	TC-M	0.50
MW-15	1.50	TC-W	0.50
MW-16	0.02		
		Total	**19.59**

Notes:

NP = not purged

Product removal estimates are based on the total amount of free product measured in the purge tank (19 gallons) per total amount of groundwater purged (828.25 gallons), which yields 0.023 gallon of product per 1 gallon of purge water

Based on the total amount of groundwater removed, 828.25 gallons, Stellar Environmental calculated that approximately 0.069 pound of gasoline, 0.019 pound of motor oil, and 0.059 pound of diesel were removed with the purged groundwater. Stellar Environmental removed an additional 0.15-gallon of free product passively during the December 17, 2010 event.

The active removal activities occurred as follows:

- On September 20, 2010, Stellar Environmental removed a total of 0.25 gallon from the skimmer in trench well TA-W (the second skimmer was empty) and then 50 gallons of groundwater actively. One of the skimmers contained 0.1 gallon in trench well TA-M. The remaining liquid in both skimmers was water; however, Stellar Environmental removed 50 gallons actively. One skimmer in trench well TA-E contained 0.1 gallon of project but the other was filled with only water. Fifty gallons were removed actively from this well. Stellar Environmental removed 20 gallons actively from trench TB-W and 15 gallons from trenches TB-M and TB-E. There are no skimmers in these trenches. The only skimmer in the TC trench wells is in TC-E; this was filled with only water. Stellar Environmental removed 50 gallons actively from TC-E and 25 gallons each from trench wells TC-W and TC-M. Stellar Environmental removed 200 gallons from RW-1, 10 gallons from MW-3, 0.5 gallon from MW-13, 23 gallons from MW-12, 15 gallons from MW-15, 1 gallon from MW-16, and 20 gallons from MW-8.

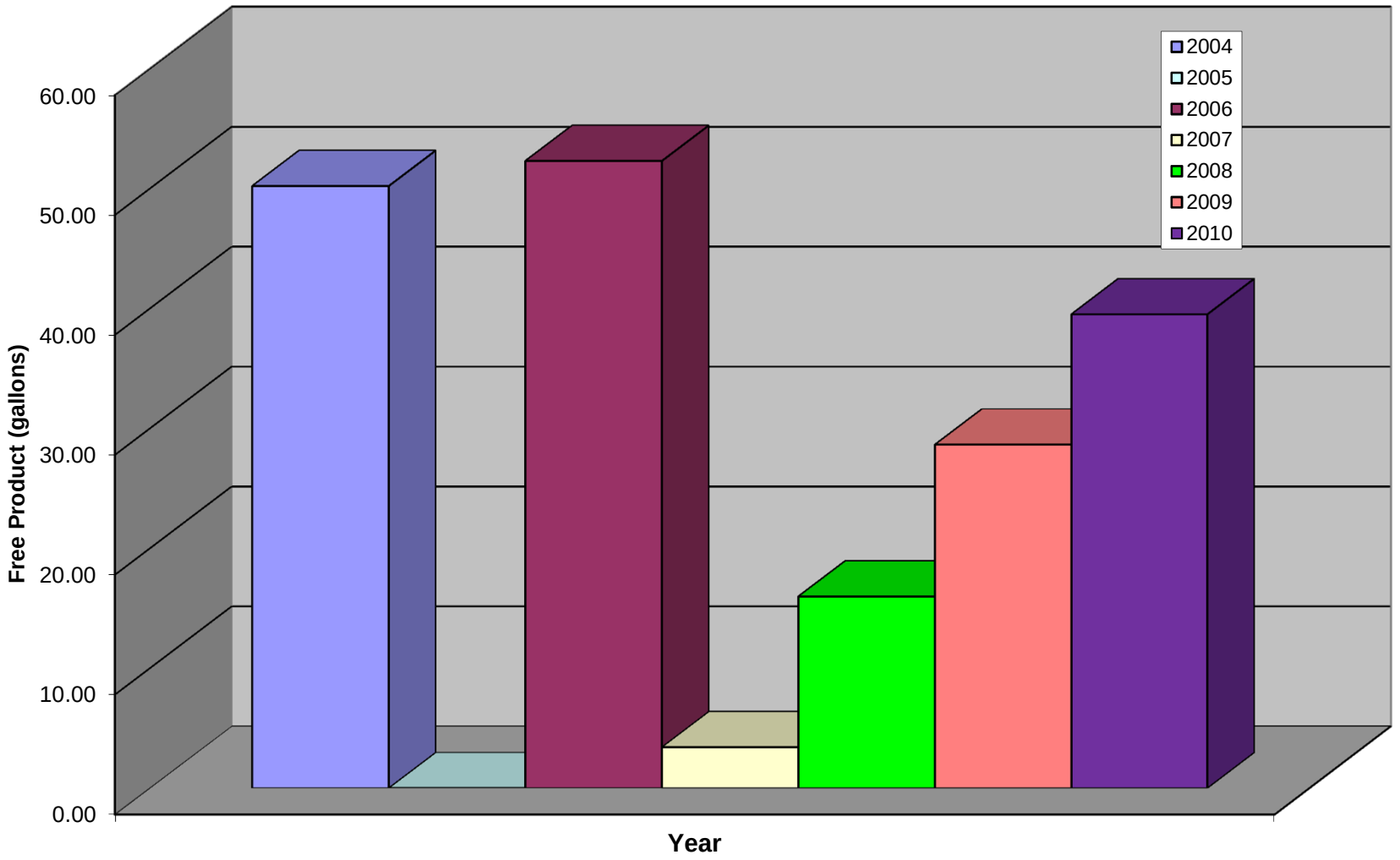
- On September 21, 2010 Stellar Environmental removed 0.5 gallon from well MW-13, 50 gallons from MW-12, 25 gallons from MW-10, 0.25 gallon from MW-14, 23 gallons from MW-8, 1 gallon from MW-16, 50 gallons from MW-15, 0.5 gallon from MW-7, 5 gallons from MW-E, 0.5 gallon from MW-9, 1 gallon from MW-18, 45 gallons from MW-17, 4 gallons from MW-13, 100 gallons from RW-1, 25 gallons from MW-6, 18 gallons from MW-5, 10 gallons from MW-4.

All of the purge water and free product extracted during these events was containerized onsite in the 1,100-gallon AST located in the northeastern-gated area of the garage. On September 30, 2010, Evergreen Oil vacuumed and transported the water to its recycling facility in Newark, California. The waste manifest and recycling certificate are included in Appendix F. A table containing the amount of product removed per well to date is included in Appendix E.

DISCUSSION

As mentioned under the "Historical Free Product Extraction" subsection of this chapter, no product extraction was conducted by PES in 2005. "Product" removal in 2006 was reported at a significant 52 gallons by PES; however, it was not achieved through collection from the trench hydrocarbon skimmers, but rather through active pumping; in addition, the "product" referred to by PES appears to actually have been a mixture of petroleum product and water. The PES report provides no documentation (e.g., manifests) of the removal of actual recovered petroleum product. The recovery by PES from the start of 2007 through October 2007 (when Stellar Environmental assumed environmental consulting activities) was limited to 0.6 gallon collected from the skimmers.

Figure 11
Total Free Product Extracted Per Year
6400 Christie Avenue, Emeryville, CA



In addition, there had been no removal of free product from well RW-1 since 2004, at which time approximately 50 gallons of free-floating product was indicated to have been removed by active pumping. The majority of this petroleum product apparently was removed by active pumping and removal activities rather than from the trench well skimmers. Much of this "product"is likely to have been a mixture of water and hydrocarbons. Figure 11 is bar graph showing the total amount of product removed per date.

Thus, we conclude that the trench recovery system on its own has never been particularly effective. In 2007, passive extraction of free product through trench well skimmers removed only 3.41 gallons. Stellar Environmental removed approximately 5.65 gallons of free product from these passive skimmers during the 2008 removal events. Only 3.36 gallons were removed in 2009. Approximately 10.34 gallons were removed by active pumping on wells during 2008. Approximately 25.44 gallons of free product were removed by active pumping on wells in 2009. Approximately 38.62 gallons of free product were removed by active pumping on wells in 2010.

As demonstrated by the analytical data, active pumping on certain wells has generally reduced gasoline concentrations; however, wells not included in the pumping schedule showed a lesser or no decrease. Diesel concentrations seem to be less affected by active pumping, even in wells that were included in the pumping schedule, such as RW-1. More active remediation will likely be required on this site to reduce the concentrations to levels acceptable to the regulatory community and to achieve eventual regulatory closure. However, with the exception of the current program of LNAPL removal from the skimmers and wells, no additional active remedies are proposed until a more cost-effective and productive method of removal is found.

6.0 SUMMARY, CONCLUSIONS, AND PROPOSED ACTIONS

FINDINGS AND CONCLUSIONS

- The subject property parcel was developed as early as 1958 with the Motor Freight Station, associated with Delta Lines, Inc. The Delta Lines complex contained an "Oil and Gas" building, located at the site of the present-day Emery Bay Phase I Condo complex and parking garage. In 1986, the building was demolished, and 12 UFSTs containing diesel and gasoline were removed from the Emery Bay Phase I and Phase II Condo complex parcels. Soil and groundwater contamination was discovered.
- In response to the contamination, a LNAPL groundwater pump-and-treat system was installed in 1989, but failed in 1991. Active pumping of free product began again in 2004, and a product extraction system consisting of passive product removal was installed in 2006. Groundwater monitoring events have been sporadically conducted since 1988; quarterly groundwater monitoring events were conducted for the first time in 2008. The quarterly sampling was reduced to semiannual frequency in 2009.
- The site currently contains 17 monitoring wells, 1 recovery well, and 9 product extraction trench wells. This is the 14th sampling event conducted since 1988.
- Site geological conditions consist of a combination of fill and soft bay sediment to between 15 and 20 feet bgs, covered by approximately 1 to 2½ feet of pavement and imported fill. This is underlain by approximately 20 feet of firm soil consisting of primarily dense silty sand with intermittent layers of silty and sandy clay. Stiff to very stiff clay extends from a depth of approximately 40 feet to approximately 102 feet.
- The groundwater direction during this monitoring event was found to range from the southwest (on the northern portion of the site) to the west (on the central portion of the site) to the northwest (on the southern portion of the site).
- Groundwater elevations during the September 2010 event ranged from 6.82 to 9.21 feet above mean sea level. The average groundwater gradient was 0.001 foot/foot.
- Current contaminants of concern include TPHg, TPHd, and BTEX. Current groundwater concentrations exceeded the ESLs for these contaminants.
- Gasoline was detected in MW-3, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-17, MW-E, and RW-1 above the ESL where groundwater <u>is not</u> a

drinking water resource (210 micrograms per liter [µg/L]). Gasoline was also detected in MW-4, MW-6, MW-9 and MW-16, but at concentrations below the ESL. The highest concentration (1,700,000 µg/L) was observed in MW-13. This concentration is well below the 2,700,000 µg/L maximum concentration observed during the December 2008 event, but above both the 43,000 µg/L observed last quarter (March 2010) and the 1,400,000 µg/L observed the same time last year.

- Increases in gasoline concentrations compared to the previous March 2010 monitoring event were observed in wells MW-3, MW-4, MW-6, MW-7, MW-9, MW-13, MW-16, MW-18, and RW-1; and decreases were observed in wells MW-8, MW-10, MW-11, MW-12, MW-14, MW-15, MW-17, and MW-E. The concentrations in perimeter well MW-5 remained the same. When comparing the concentrations to the September 2009 sampling event, wells MW-8 and MW-11 had showed decreases and perimeter well MW-5 remained the same. The remaining 15 wells had increases in the gasoline concentration.
- Diesel was detected in all site wells above the ESL of 210 µg/L (where groundwater is not a drinking water resource). The highest concentration (3,100,000 µg/L) was observed in MW-13. This is a new historic maximum for this well. Increased diesel concentrations compared to the previous March 2010 monitoring event were observed in wells MW-3, MW-4, MW-5, MW-6, MW-7, MW-13, MW-E, and RW-1; and decreases were observed in wells MW-8, MW-9, MW-10, MW-11, MW-12, MW-14, MW-15, MW-16, MW-17, and MW-18. When comparing the concentrations to the September 2010 sampling event, wells MW-3, MW-4, MW-7, MW-12, MW-13, MW-14, MW-15, MW-E, and RW-1 exhibited increases; wells MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-16, MW-17, and MW-18 showed decreases.
- Benzene concentrations exceeded the benzene ESL of 46 µg/L (where groundwater is not a likely drinking water resource) in MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-17, MW-E, and RW-1. Benzene was also reported in MW-5, MW-6, MW-9, and MW-16, but at concentrations below the ESL.
- Toluene was detected above the ESL of 130 µg/L in monitoring well MW-13.
- Ethylbenzene was detected above the 43-µg/L ESL (where groundwater is not a drinking water resource) in monitoring wells MW-8, MW-12, MW-13, MW-14, MW-15, MW-17, MW-E, and RW-1.
- Total xylene concentrations in monitoring wells MW-7, MW-8, MW-13, and MW-17 were above the 100-µg/L ESL where groundwater is not a drinking water resource.
- MTBE was detected above the ESL of 1,800 µg/L in MW-13.

- Stellar Environmental conducted passive skimmer product removal on the trench wells during the June, September, and December 2010 removal events. A total of approximately 1.35 gallons were removed from trench wells TA-E, TA-M, TA-W, and TC-E.
- A total of approximately 828.25 gallons of groundwater yielding approximately 19.6 gallons (Table 4) of free product were removed during the September 2010 active product removal event, in addition to 0.45 gallons (Table 3) removed passively from the skimmers. A sample taken from the AST on September 22, 2010 contained TVHg at 10,000 µg/L; TEHmo at 2,800 µg/L, and TEHd at 14,000 µg/L. Based on the total amount of groundwater removed, 828.25 gallons, Stellar Environmental calculated that approximately 0.069 pound of gasoline, 0.019 pound of motor oil, and 0.059 pound of diesel were removed with the purged groundwater.
- The trench recovery system, where free product is designed to collect in 1-liter skimmers, is effective in removing small amounts of free product, but is not effective in decreasing the size of the plume overall. Active pumping at various wells appears to have some effect in lowering gasoline concentrations; however, it does not appear to be affecting the concentrations of diesel (which appear to be steadily increasing).

RECOMMENDATIONS

- Groundwater monitoring should be continued on a semiannual basis to document plume stability and manage contaminant concentrations over time.
- Both active and passive free product removal events should be continued to ascertain their effectiveness in managing the plume on site and reducing the plume size over time. Active product removal is being conducted on a semiannual basis immediately prior to the sampling event. Passive product removal from the skimmers is being conducted on a quarterly basis.
- Emergent best available technologies shall continue to be evaluated, as a new technology might cost-effectively remediate the site to move it toward full regulatory closure.
- Electronic uploads to ACEH's ftp system and the State Water Board's GeoTracker system should be continued as required.

7.0 REFERENCES AND BIBLIOGRAPHY

Aqua Science Engineers (Aqua), 1986a. Hydrocarbon Contamination Abatement Plan for Bay Center, Emeryville, CA. May 23.

Aqua Science Engineers (Aqua), 1986b. Report – Soil Sampling and Determination of Hydrocarbon Contamination from Tank Removal at the Bay Port Development, 64th and Lacoste Street, Emeryville, CA. May 27.

Aqua Science Engineers (Aqua), 1986c. A Proposal for Installing a Fuel Contamination and Recovery System. August 27.

Aqua Science Engineers (Aqua), 1986d. Phase II – Extent of Groundwater Contamination Investigation, Bay Center. August 27.

Aqua Science Engineers (Aqua), 1986e. Project Report – Soils Gas Investigation, Bay Center. August 27.

Aqua Science Engineers (Aqua), 1986f. Request for Additional Information Regarding Aeration and Sampling Soils Contaminated with Motor Fuel Hydrocarbons. Information addressed to the Alameda County Health Care Services, Hazardous Materials Unit. July 28.

Aqua Science Engineers (Aqua), 1986g. Additional Information Regarding Aeration and Sampling Soils Contaminated with Motor Fuel Hydrocarbons. July 11.

Bay Area Air Quality Management District (BAAQMD), 1987. Letter to the Martin Company authorizing the contaminated groundwater and oil recovery system. April 13.

Chan, Barney, 2007. Project Officer, Alameda County Department of Environmental Health. Personal communication to Richard Makdisi of Stellar Environmental Solutions, Inc. April 10.

Creps, Rob, 2007. PES Environmental, Inc. Project Manager for the Phase I Apartment Complex Remediation. Personal communication to Teal Glass and Richard Makdisi of Stellar Environmental Solutions, Inc. April 19.

Earth Metrics, Inc., 1986a. Draft Soils Contamination Characterization for Garret Freight Lines Emeryville Site, 64th Street and Lacoste, Emeryville, CA. March 14.

Earth Metrics, Inc., 1986b. Environmental Assessment for the Proposed Bay Center Apartment Complex in the Redevelopment Project Area of the City of Emeryville. May.

Earth Metrics, Inc., 1986c. Draft Work Plan for Soils Contamination Characterization of Bay Center Site, Emeryville, CA. May 19.

Earth Metrics, Inc., 1986d. Soils and Groundwater Contamination Characterization of Bay Center Site, Emeryville, CA. August 20.

Earth Metrics, Inc., 1987. Safety Plan for Bay Center Offices and Apartments in Emeryville, CA. September 15.

Geomatrix, 1988. Observation and Testing of Earthwork Construction, Bay Center Apartments. May 20.

Groundwater Technology, Inc. (GTI), 1987a. Letter to Alameda County Health Department Hazardous Materials Division citing irregularities in the Aqua Science Laboratory Results. August 19.

Groundwater Technology, Inc. (GTI), 1987b. Report of Further Subsurface Hydrocarbon Investigation, Emeryville, CA, Bay Center Project. September 8.

Groundwater Technology, Inc. (GTI), 1989a. Well Replacement and Groundwater Assessment Report, Bay Center Project, Emeryville, CA. June.

Groundwater Technology, Inc. (GTI), 1989b. Water Treatment System Start-Up Report, Bay Center Project, Christie and 64th Streets, Emeryville, CA. April 10.

Groundwater Technology, Inc. (GTI), 1990a. First Quarter Sampling Event. Laboratory Analyses at the Bay Center Project. July 24.

Groundwater Technology, Inc. (GTI), 1990b. Letter to the Bay Center Apartment Associates detailing problems with the groundwater extraction system. August 14.

Groundwater Technology, Inc. (GTI), 1990c. Quarterly Report, Bay Center Apartment Associates, Bay Center Project, Christie and 64th Streets, Emeryville, CA. October 31.

Groundwater Technology, Inc. (GTI), 1991a. Quarterly Report, Bay Center Project, Christie and 64th Streets, Emeryville, CA. January.

Groundwater Technology, Inc. (GTI), 1991b. Quarterly Status Report. April 15.

Harding Lawson Associates (HLA), 1991. Preliminary Hazardous Materials Site Assessment. December 16.

Harding Lawson Associates (HLA), 1992a. Results of Soil and Groundwater Investigation. May 6.

Harding Lawson Associates (HLA), 1992b. Hazardous Waste Management Plan. May 26.

Harding Lawson Associates (HLA), 1992c. Conceptual Design of Venting System, Emerybay II Apartments. November 24.

Harding Lawson Associates (HLA), 1993. Results of Soil Sampling, Emerybay II Apartments. April 21.

Harding Lawson Associates (HLA), 1994. Results of Services During Construction, Emerybay Apartments – Phase II. May 19.

Johnson, Mark, 2007. Project Officer, Regional Water Quality Control Board. Personal communication to Teal Glass of Stellar Environmental Solutions, Inc. April 11.

Martin Company, 1986a. Letter to Lowell Miller of Alameda County Health Care Services documenting agreements for the construction workplan involving contaminated soil. June 5.

Martin Company, 1986b. Letter to Tom Owens of Emeryville Community Developers, Inc. documenting recognized contamination issues. May 21.

Martin Company, 1986c. Letter to Rafat Shahid of Alameda County Health Care Services documenting agreement of drum removal. May 16.

Martin Company, 1986d. Letter to the State Water Resources Control Board documenting unused underground storage tanks. December 11.

PES Environmental, Inc. (PES), 2004a. Status Report, Investigation of Subsurface Petroleum Hydrocarbon Residuals. Bay Center Apartments, Christie Avenue and 64th Street, Emeryville, CA. April 5.

PES Environmental, Inc. (PES), 2004b. Investigation for Missing Wells. April 5.

PES Environmental, Inc. (PES), 2004c. Status Report. August 30.

PES Environmental, Inc. (PES), 2007. Construction Implementation and Semi-Annual Operations Report. Free-Phase Hydrocarbon Product Remediation System. EmeryBay Commercial Association, Christie Avenue and 64th Street, Emeryville, CA. March 30.

Regional Water Quality Control Board (Water Board), 1999. East Bay Plain Groundwater Basin Beneficial Use Evaluation Report.

Regional Water Quality Control Board (Water Board), 2008. Environmental Screening Levels for residential properties on shallow soils where groundwater is a drinking water resource / is not a drinking water resource. Written February 2005, revised May 2008.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2007. Phase I Environmental Site Assessment – 6425-6475 Christie Avenue, Emeryville, CA. April 17.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2008a. 2007 Annual Groundwater Monitoring and Product Extraction Report. EmeryBay Condo Phase I Parking Garage – 6400 Christie Avenue, Emeryville, CA. January 28.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2008b. Quarter One 2008 Groundwater Monitoring and Product Extraction Report. EmeryBay Condo Phase I Parking Garage – 6400 Christie Avenue, Emeryville, CA. May 7.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2008c. Second Quarter 2008 Groundwater Monitoring and Product Extraction Report. EmeryBay Condo Phase I Parking Garage – 6400 Christie Avenue, Emeryville, CA. July 18.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2008d. Third Quarter 2008 Groundwater Monitoring and Product Extraction Report. EmeryBay Condo Phase I Parking Garage – 6400 Christie Avenue, Emeryville, CA. October 15.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2009a. Fourth Quarter 2008 Groundwater Monitoring, Product Extraction Report, and Annual Summary. EmeryBay Condo Phase I Parking Garage – 6400 Christie Avenue, Emeryville, CA. January 16.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2009b. Indoor Air and Preferential Pathway Survey Report. EmeryBay Condo Phase I Parking Garage – 6400 Christie Avenue, Emeryville, CA. April 4.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2009c. First Semiannual 2009 Groundwater Monitoring Report. EmeryBay Condo Phase I Parking Garage – 6400 Christie Avenue, Emeryville, CA. April 29.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2010a. Indoor Air Survey. EmeryBay Condo Phase I Parking Garage – 6400 Christie Avenue, Emeryville, CA. April 5.

Stellar Environmental Solutions, Inc. (Stellar Environmental), 2010b. First Semiannual 2010 Groundwater Monitoring Report. EmeryBay Condo Phase I Parking Garage – 6400 Christie Avenue, Emeryville, CA. April 21.

8.0 LIMITATIONS

This report has been prepared for the exclusive use of Emerybay Commercial Association, their authorized representatives and assigns, and the regulatory agencies. No reliance on this report shall be made by anyone other than those for whom it was prepared.

The findings and conclusions presented in this report are based on a review of previous investigators' findings at the site, as well as site investigations conducted by SES in 2007, 2008, and 2009. This report has been prepared in accordance with generally accepted methodologies and standards of practice. The SES personnel who performed this limited remedial investigation are qualified to perform such investigations and have accurately reported the information available, but cannot attest to the validity of that information. No warranty, expressed or implied, is made as to the findings, conclusions, and recommendations included in the report.

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

APPENDIX A

Historical Groundwater Well Analytical Results

TABLE A
Historical Groundwater Monitoring Well Groundwater Analytical Results
Petroleum and Aromatic Hydrocarbons (µg/L)
6400 Christie Avenue, Emeryville, California

MW-1									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
1	Dec-88	380	17,000	NA	8,600	940	250	570	NA
2	May-89	130	24,000	NA	16,000	2,100	300	1,200	NA
3	Feb-91	<10	22,000	NA	6,800	3,500	410	2,000	NA
Monitoring well abandoned - date unclear									

MW-2									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
1	Dec-88	72	22	NA	<0.5	<0.5	<0.5	<0.5	NA
2	May-89	40	18	NA	<0.5	<0.5	<0.5	<0.5	NA
3	Feb-91	83	<10	NA	<0.3	<0.3	<0.3	<0.6	NA
Monitoring well abandoned - date unclear									

MW-3									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
1	Dec-88	<10	4,200	NA	77	1,400	140	560	NA
2	May-89	110	1,800	NA	64	250	61	110	NA
3	Feb-91	NS	NS	NS	NS	NS	NS	NS	NS
4	Mar-04	3,400	440	3,900	<0.5	<0.5	1.5	<1.0	9.7
5	Dec-06	350	280	230	<0.5	<0.5	<0.5	<0.5	2.0
6	Dec-07	960	150	NA	0.54	0.54	<0.5	<0.5	<2.0
7	Mar-08	6,600	450	NA	<0.5	<0.5	1.8	2.0	4.3
8	Jun-08	4,500	440	NA	<0.5	<0.5	4.0	2.0	9.5
9	Sep-08	1,700	280	NA	<0.5	<0.5	1.0	<0.5	<2.0
10	Dec-08	2,300	240	NA	<0.5	<0.5	1.1	<0.5	<2.0
11	Mar-09	4,300	260	NA	1.3	<0.5	1.8	0.5	2.9
12	Sep-09	5,000	300	NA	2.5	<0.5	<0.5	<0.5	<2.0
13	Mar-10	4,500	230	670	1.7	<0.5	1.0	<0.5	2.7
14	Sep-10	5,100	470	NA	<0.5	0.64	<0.5	1.6	2.9

MW-4									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
1	Dec-88	<10	100	NA	2.0	1.0	<0.5	2.0	NA
2	May-89	60	18	NA	1.0	<0.5	<0.5	<0.5	NA
3	Feb-91	<10	<10	NA	<0.3	<0.3	<0.3	<0.6	NA
4	Mar-04	NS	NS	NS	NS	NS	NS	NS	NS
5	Dec-06	<50	50	<200	<0.5	<0.5	<0.5	<0.5	<1.0
6	Dec-07	710	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
7	Mar-08	680	57	NA	<0.5	<0.5	<0.5	<0.5	<2.0
8	Jun-08	620	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
9	Sep-08	440	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
10	Dec-08	730	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
11	Mar-09	940	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
12	Sep-09	660	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
13	Mar-10	680	<50	380	<0.5	<0.5	<0.5	<0.5	<2.0
14	Sep-10	770	71	NA	<0.5	<0.5	<0.5	<0.5	<2.0

MW-5									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
1	Dec-88	530	890	NA	<1.0	<1.0	1.0	3.0	NA
2	May-89	90	5.0	NA	1.0	<0.5	<0.5	<0.5	NA
3	Feb-91	58	<10	NA	0.6	<0.3	<0.3	<0.6	NA
4	Mar-04	NS	NS	NS	NS	NS	NS	NS	NS
5	Dec-06	330	<25	<200	0.6	<0.5	<0.5	<0.5	<1.0
6	Dec-07	5,100	1.3	NA	1.3	<0.5	<0.5	1.23	<2.0
7	Mar-08	4,500	<50	NA	0.53	<0.5	<0.5	<0.5	<2.0
8	Jun-08	3,300	<50	NA	0.64	<0.5	<0.5	<0.5	<2.0
9	Sep-08	4,200	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
10	Dec-08	5,200	<50	NA	0.61	<0.5	<0.5	<0.5	<2.0
11	Mar-09	5,800	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
12	Sep-09	5,600	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
13	Mar-10	4,300	<50	5,400	4.9	<0.5	<0.5	<0.5	<2.0
14	Sep-10	4,500	<50	NA	0.58	<0.5	<0.5	<0.5	2.0

MW-6									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
1	Dec-88	<10	52	NA	1.0	<0.5	<0.5	<0.5	NA
2	May-89	140	31	NA	1.0	<0.5	<0.5	<0.5	NA
3	Feb-91	130	40	NA	0.8	<0.3	<0.3	<0.6	NA
4	Mar-04	NS	NS	NS	NS	NS	NS	NS	NS
5	Dec-06	200	43	<200	1.1	<0.5	<0.5	<0.5	<1.0
6	Dec-07	1,000	<50	NA	0.98	0.81	<0.5	0.5	<2.0
7	Mar-08	940	<50	NA	0.87	1.0	<0.5	<0.5	<2.0
8	Jun-08	1,100	56	NA	0.92	<0.5	<0.5	<0.5	2.9
9	Sep-08	1,000	<50	NA	0.91	<0.5	<0.5	<0.5	<2.0
10	Dec-08	1,400	<50	NA	1	<0.5	<0.5	<0.5	<2.0
11	Mar-09	1,200	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
12	Sep-09	1,500	<50	NA	0.79	<0.5	<0.5	<0.5	<2.0
13	Mar-10	910	<50	1,500	1.9	<0.5	<0.5	<0.5	<2.0
14	Sep-10	1,200	72	NA	1.0	<0.5	<0.5	<0.5	<2.0

MW-7									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in March 2004									
1	Mar-04	1,600	490	1,900	240	100	14	56	<2.5
2	Dec-06	420	<25	470	<0.5	<0.5	<0.5	<0.5	<1.0
3	Dec-07	6,300	3,100	NA	640	28	48	231	<10
4	Mar-08	7,000	360	NA	140	5.8	11	58	<2.0
5	Jun-08	5,400	1,700	NA	480	15	28	139	<2.0
6	Sep-08	9,400	1,200	NA	330	12	21	88	<2.0
7	Dec-08	8,700	2,200	NA	640	100	43	185	<4.0
8	Mar-09	8,700	1,700	NA	510	33	47	220	<10
9	Sep-09	6,800	620	NA	310	9.5	27	117	<10
10	Mar-10	8,700	330	6,800	68	2.2	10	31.6	<2.0
11	Sep-10	10,000	1,300	NA	580	54	35	163	<20

MW-8									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in March 2004									
1	Mar-04	140,000	51,000	56,000	19,000	720	2,400	3,300	<50
2	Dec-06	2,400	29,000	<380	13,000	<100	640	500	<200
3	Dec-07	5,900	30,000	NA	11,000	180	650	561	<100
4	Mar-08	21,000	47,000	NA	10,000	260	1,200	458	<2.0
5	Jun-08	7,300	27,000	NA	9,300	140	790	290	<2.0
6	Sep-08	13,000	35,000	NA	11,000	190	900	402	<100
7	Dec-08	7,600	19,000	NA	6,800	110	380	236	<50
8	Mar-09	10,000	22,000	NA	9,400	200	640	358	<50
9	Sep-09	9,200	26,000	NA	8,600	100	630	230	170
10	Mar-10	11,000	19,000	1,900	6,200	120	830	149	<2.0
11	Sep-10	7,600	7,800	NA	8,800	110	620	212	<100

MW-9									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in March 2004									
1	Mar-04	1,300	95	1,500	4.7	0.68	<0.5	<1.0	<0.5
2	Dec-06	<50	92	<200	2.8	<0.5	<0.5	<0.5	<1.0
3	Dec-07	8,400	84	NA	4.7	1.1	<0.5	1.9	<2.0
4	Mar-08	8,600	100	NA	4.1	1.1	<0.5	<0.5	2.0
5	Jun-08	5,900	98	NA	4.9	<0.5	<0.5	<0.5	2.3
6	Sep-08	9,300	130	NA	4.6	<0.5	<0.5	<0.5	<50
7	Dec-08	7,800	95	NA	4.0	0.54	<0.5	<0.5	<2.0
8	Mar-09	9,400	130	NA	4.6	<0.5	<0.5	<0.5	<2.0
9	Sep-09	8,200	98	NA	4.0	<0.5	<0.5	<0.5	<2.0
10	Mar-10	6,500	140	4,000	5.2	<0.5	<0.5	<0.5	<2.0
11	Sep-10	6,400	170	NA	4.8	0.77	<0.5	<0.5	<2.0

MW-10									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in March 2004									
1	Mar-04	840,000	14,000	<100,000	4,000	77	200	120	<50
2	Dec-06	19,000	12,000	<4,000	4,600	42	90	52	<50
3	Dec-07	4,700	13,000	NA	5,300	96	42	86	<50
4	Mar-08	280,000	10,000	NA	2,600	50	37	58.7	22
5	Jun-08	4,800	10,000	NA	3,800	62	24	61	<2.0
6	Sep-08	4,700	1,200	NA	350	11	3.4	11	<2.0
7	Dec-08	3,200	2,900	NA	550	45	15	56	<20
8	Mar-09	6,200	8,200	NA	890	46	78	130	<20
9	Sep-09	6,100	1,400	NA	1,200	35	19	31	<20
10	Mar-10	3,900	7,800	960	1,200	46	34	56	54
11	Sep-10	3,500	3,400	NA	1,500	47	18	44	<40

MW-11									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in May 2004									
1	Dec-06	<50	920	<200	26	4.5	1.8	5.4	<1.0
2	Dec-07	6,900	1,500	NA	320	44	53	140	<2.0
3	Mar-08	7,500	1,200	NA	120	7.6	10	24.9	3.0
4	Jun-08	5,100	2,000	NA	190	11	7.7	16.3	<2.0
5	Sep-08	5,600	2,200	NA	260	20	34	60	<2.0
6	Dec-08	7,800	2,100	NA	270	14	7.6	15.6	<2.0
7	Mar-09	7,100	1,400	NA	200	6.4	7.3	10.4	<2.0
8	Sep-09	6,400	1,900	NA	320	13	9.8	15.2	2.0
9	Mar-10	6,500	1,600	6,900	150	<0.5	3.9	12.8	2.9
10	Sep-10	5,500	1,300	NA	330	15	9.2	17.3	<2.0

MW-12									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in May 2004									
1	Dec-06	<50	19,000	<200	9,100	51	<50	110	<100
2	Dec-07	2,700	17,000	NA	8,000	110	25	115	<40
3	Mar-08	3,300	33,000	NA	9,200	140	85	116	<2.0
4	Jun-08	3,000	17,000	NA	6,600	95	50	110	<2.0
5	Sep-08	3,100	14,000	NA	6,200	79	18	83	<10
6	Dec-08	3,600	19,000	NA	7,900	140	72	124	<50
7	Mar-09	4,100	14,000	NA	6,100	150	130	111	<40
8	Sep-09	3,000	1,900	NA	4,500	80	14	51	<40
9	Mar-10	4,000	15,000	1,900	6,200	110	73	101	<2.0
10	Sep-10	3,100	4,900	NA	5,900	97	47	73	<100

MW-13									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in April 2004									
1	Dec-06	12,000	87,000	2,100	18,000	470	2,400	3,500	<400
2	Dec-07	NA	68,000	NA	19,000	650	1,700	2,440	<100
3	Mar-08	1,100,000	98,000	NA	19,000	820	2,300	3,190	<100
4	Jun-08	71,000	44,000	NA	12,000	510	1,600	1,950	<2.0
5	Sep-08	440,000	52,000	NA	<100	500	1,600	1,500	<100
6	Dec-08	1,100,000	2,700,000	NA	23,000	<250	40,000	45,000	<1,000
7	Mar-09	2,000,000	330,000	NA	25,000	1,300	6,400	8,500	<1,000
8	Sep-09	38,000	1,400,000	NA	19,000	2,500	19,000	21,300	<1,000
9	Mar-10	15,000	43,000	670	12,000	310	1,600	1,140	<2,500
10	Sep-10	3,100,000	1,700,000	NA	21,000	2,300	30,000	17,200	7,000

MW-14									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in April 2004									
1	Dec-06	<50	8,300	<200	3,700	240	230	260	<50
2	Dec-07	2,600	6,800	NA	3,100	150	220	168	<20
3	Mar-08	4,400	18,000	NA	4,400	330	340	245	<2.0
4	Jun-08	2,600	7,700	NA	2,600	180	200	141	<2.0
5	Sep-08	2,500	4,100	NA	1,300	50	80	61	<10
6	Dec-08	2,800	2,300	NA	830	27	45	30.7	<10
7	Mar-09	3,200	13,000	NA	4,300	870	260	283	<50
8	Sep-09	2,100	550	NA	630	14	28	17	<20
9	Mar-10	3,900	6,700	3,100	2,400	400	140	185	<20
10	Sep-10	2,500	2,000	NA	1,700	44	98	89	<40

MW-15									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in April 2004									
1	Dec-06	<50	9,200	<200	3,700	<25	60	57	<50
2	Dec-07	3,300	8,100	NA	3,000	48	28	44.5	<20
3	Mar-08	3,000	13,000	NA	3,600	66	210	59.5	<64
4	Jun-08	2,900	15,000	NA	5,800	61	230	56.4	<2.0
5	Sep-08	3,400	18,000	NA	7,800	73	270	59.9	<10
6	Dec-08	3,000	20,000	NA	7,600	95	300	84.2	<50
7	Mar-09	3,400	17,000	NA	7,200	91	170	60	<50
8	Sep-09	2,700	2,300	NA	6,200	71	68	42	<50
9	Mar-10	3,700	14,000	910	5,900	74	170	69	<2.0
10	Sep-10	3,500	5,800	NA	8,100	95	170	71	<100

MW-16									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in April 2004									
1	Dec-06	<50	190	<200	11.0	1.4	<0.5	<0.5	<1.0
2	Dec-07	8,500	71	NA	13	2.6	<0.5	1.46	<2.0
3	Mar-08	12,000	60	NA	11	0.73	<0.5	<0.5	<2.0
4	Jun-08	10,000	120	NA	13	2.2	<0.5	<0.5	2
5	Sep-08	8,200	64	NA	9.9	1.9	<0.5	<0.5	<2.0
6	Dec-08	8,800	60	NA	11	2.8	<0.5	0.53	<2.0
7	Mar-09	14,000	78	NA	12	2.3	<0.5	<0.5	<2.0
8	Sep-09	10,000	51	NA	9.3	1.6	<0.5	<0.5	2.2
9	Mar-10	12,000	70	4,700	12	2.1	0.56	1.35	<2.0
10	Sep-10	9,800	77	NA	12	1.9	<0.5	0.55	2

MW-17									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in April 2004									
1	Dec-06	<50	14,000	<200	3,400	1,100	480	<0.5	<1.0
2	Dec-07	2,900	5,000	NA	1,100	260	110	206	<10
3	Mar-08	3,100	6,800	NA	1,200	110	91	94	21
4	Jun-08	2,900	7,200	NA	1,100	45	75	66	<2.0
5	Sep-08	3,300	5,500	NA	900	63	69	69	<10
6	Dec-08	3,200	7,100	NA	1,100	530	190	390	<10
7	Mar-09	3,000	5,400	NA	770	150	87	161	<2.0
8	Sep-09	3,000	2,200	NA	120	3.1	11	1.6	<2.0
9	Mar-10	3,400	5,000	1,900	910	66	73	93	<2.0
10	Sep-10	2,800	3,500	NA	1,400	62	46	76	<40

MW-18									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
Installed in May 2004									
1	Dec-06	<50	120	<200	22	6.2	3.2	6.2	<2.0
2	Dec-07	8,600	<50	NA	0.98	<0.5	<0.5	<0.5	<2.0
3	Mar-08	9,800	<50	NA	0.52	<0.5	<0.5	<0.5	2.0
4	Jun-08	8,800	<50	NA	<0.5	<0.5	<0.5	<0.5	3.1
5	Sep-08	8,600	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
6	Dec-08	9,300	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
7	Mar-09	10,000	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
8	Sep-09	11,000	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0
9	Mar-10	9,400	<50	2,700	<0.5	<0.5	<0.5	<0.5	<2.0
10	Sep-10	6,400	1,800	NA	2200	45	64.0	78.0	<50

MW-E									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
1	Dec-88	100	5,400	NA	3,200	690	97	330	NA
2	May-89	NS	NS	NS	NS	NS	NS	NS	NS
3	Feb-91	NS	NS	NS	NS	NS	NS	NS	NS
4	Mar-04	470	810	<500	340	6.1	2.2	7.7	<1.0
5	Dec-06	280	1,900	<200	910	<10	10	<10	<20
6	Dec-07	6,900	7,000	NA	3,300	50	51	80	<20
7	Mar-08	6,300	2,700	NA	780	17	20	20.9	12
8	Jun-08	5,200	7,400	NA	2,900	43	85	50	<2.0
9	Sep-08	7,800	11,000	NA	3,800	170	130	257	<50
10	Dec-08	9,400	9,100	NA	3,400	110	180	182	<50
11	Mar-09	5,600	850	NA	270	7.5	13	17.5	<2.0
12	Sep-09	6,200	540	NA	1,200	22	37	37.2	<2.0
13	Mar-10	3,800	2,400	5,100	1,000	20	37	26.9	4.9
14	Sep-10	6,600	1,800	NA	2,200	45	64	78	<50

RW-1									
Sampling Event No.	**Date Sampled**	**TEH-d**	**TVH-g**	**TEH-mo**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**
1	Dec-88	NS	NS	NS	NS	NS	NS	NS	NS
2	May-89	NS	NS	NS	NS	NS	NS	NS	NS
3	Feb-91	NS	NS	NS	NS	NS	NS	NS	NS
4	Mar-04	NS	NS	NS	NS	NS	NS	NS	NS
5	Dec-06	<50	640	<200	100	1.3	2	1.6	<1.0
6	Dec-07	2,100	770	NA	110	<0.5	3.8	1.96	<2.0
7	Mar-08	11,000	890	NA	100	4.2	4.4	2.0	<2.0
8	Jun-08	1,500	1,200	NA	290	4.8	10	4.8	<2.0
9	Sep-08	1,900	1,400	NA	280	9.8	10	6.7	<2.0
10	Dec-08	54,000	1,100,000	NA	500	<250	3,200	530	<1,000
11	Mar-09	2,800	950	NA	180	3.6	13	3	<2.0
12	Sep-09	770	350	NA	120	3.1	11	2	<2.0
13	Mar-10	810	200	<300	<0.5	<0.5	<0.5	<0.5	<2.0
14	Sep-10	980	860	NA	170	4.0	5.6	2.8	8.0

Notes:

The 1988, 1989, and 1991 sampling events were conducted by Groundwater Technology, Inc.

The 2004 and 2006 sampling events were conducted by PES Environmental.

NS = Not sampled

NA = Not analyzed for this constituent

All concentrations shown in µg/L

APPENDIX B

Groundwater Monitoring
Field Data Sheets

WELLHEAD INSPECTION CHECKLIST

Date 9-22-10 Client STELLAR

Site Address 65th & DAY ST. EMERYVILLE CA

Job Number 100922-FS1 Technician FS

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-3	✓							
MW-4	✓							
MW-5	✓							
MW-6	✓							
MW-7							*	
MW-8	✓							
MW-9							✓	
MW-10							*	
MW-11	✓							
MW-12	✓						*✓	
MW-13	✓							
MW-14	✓							
MW-15	✓							
MW-16	✓							
MW-17							*	
MW-18	✓							

NOTES: * 1/2 BOLTS MISSING MW-9 2/2 BOLTS MISSING

WELLHEAD INSPECTION CHECKLIST

Date 9-22-10 Client STELLAR

Site Address 65th & BAY ST. EMERYVILLE, CA

Job Number 100922-FS1 Technician FS

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-E							✓	
RW-1							*	

NOTES: * RW-1 1/2 TABS STRIPPED

MW-E 2/2 BOLTS MISSING.

WELL GAUGING DATA

Project # 100922-FS1 Date 9-22-10 Client STELLAR

Site 65th & BAY ST. EMERYVILLE, 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-3	942	2	SPH *	AT BOTTOM OF WELL 24.10			8.68	—	TOC	
MW-4	845	2					7.08	24.82		
MW-5	851	2					9.90	24.70		
MW-6	859	2					7.98	23.07		
MW-7	850	3/4					10.59	19.88		
MW-8	931	3/4	*	9.75			9.89	—		
MW-9	859	3/4					9.75	19.68		
MW-10	936	3/4	*	8.76			8.82	—		
MW-11	909	3/4					10.24	19.75		
MW-12	915	3/4					8.89	18.90		
MW-13	941	3/4	*	9.40			10.18	—		
MW-14	925	3/4	*	8.56			8.62	—		
MW-15	927	3/4	*	9.42			9.45	—		
MW-16	920	3/4					9.40	19.58		
MW-17	911	3/4					9.15	19.53		
MW-18	915	3/4					8.28	19.60		
~~MW-19~~ MW-E	920	2					10.11	44.87	W	

* SHEEN / ODOR

WELL GAUGING DATA

Project # 100922-FS1 Date 9-22-10 Client STELLAR

Site 65th & BAY ST. EMERYVILLE, 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
RW-1	1015	10	SHEEN/ODOR	9.50			9.65	—	TOC	

W L MONITORING DATA SHI

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-22-10
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): ____	Depth to Water (DTW): 8.68
Depth to Free Product: 24.10	Thickness of Free Product (feet): UNKNOWN
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: NEW TUBING)

START : 1046

____(Gals.) X ____ = ____ 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
1046	START		PURGE	@ 400	mL /MIN	ODOR
1052	END		PURGE	2.4 L	REMOVED	

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

Sampling Date: 9-22-10 Sampling Time: 1055 Depth to Water: 8.68

Sample I.D.: MW-3 Laboratory: Kiff CalScience (Other) CET

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

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[illegible]LL MONITORING DATA SHI[illegible]

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: JD	Date: 9-22-10
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.82	Depth to Water (DTW): 7.08
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]: 10.63	

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: _____

2.8 (Gals.) X	3	= 8.4 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
1044	18.8	7.61	1437	42	2.8	
1046	18.9	7.32	1434	38	5.6	
1048	18.8	7.28	1429	37	8.4	

Did well dewater? Yes (No) Gallons actually evacuated: 8.4

Sampling Date: 9-22-10 Sampling Time: 1050 Depth to Water: 7.72

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

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

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 #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: JO	Date: 9-22-10
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.70	Depth to Water (DTW): 9.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.86	

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: _____

2.3 (Gals.) X	3	= 6.9 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
1117	18.9	7.44	2742	>1000	2.3	Brown / cloudy
1114	18.5	7.29	2703	>1000	4.6	" "
1116	18.3	7.72	2683	>1000	6.9	" "

Did well dewater? Yes (No) Gallons actually evacuated: 6.9

Sampling Date: 9-22-10 Sampling Time: 1120 Depth to Water: 12.72

Sample I.D.: MW-5 Laboratory: Kiff CalScience (Other) CET

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

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 #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-22-10
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 23.07	Depth to Water (DTW): 7.98
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]: 10.99	

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:_____

2.5 (Gals.) X	3	=	7.5 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
1250	64.4	10.94	1724	75	2.5	
1255	64.2	11.22	1721	138	5.0	
1300	63.9	11.26	1715	177	7.5	

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Date: 9-22-10 Sampling Time: 1310 Depth to Water: 8.08

Sample I.D.: MW-6 Laboratory: Kiff CalScience (Other) CET

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

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 #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: JO	Date: 9-22-10
Well I.D.: MW-7	Well Diameter: 2 3 4 6 8 3/4
Total Well Depth (TD): 19.88	Depth to Water (DTW): 10.59
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]: 12.46	

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: New tubing

1 Case Volume	Specified Volumes	Calculated Volume
0.2 (Gals.) X	3	= 0.6 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
Heavy sheen during purge					Start: ~~1304~~ 1304	
NO parameters taken					End: 1310	
purged well for 6 mins						
unable to take DTW				during purge	3/4"	well

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 9-22-10 Sampling Time: 1316 Depth to Water: 10.83

Sample I.D.: MW-7 Laboratory: Kiff CalScience (Other) CET

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

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 L MONITORING DATA SHI

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-23-10
Well I.D.: MW-8	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): —	Depth to Water (DTW): 9.89
Depth to Free Product: 9.75	Thickness of Free Product (feet): 0.14
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:) NEW TUBING

____ (Gals.) X ____ = ____ 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
1102	BEGIN	PURGE @	450 mL/MIN			ODOR
1108	PURGE	ENDED				

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

Sampling Date: 9-23-10 Sampling Time: 1115 Depth to Water: THICK PRODUCT

Sample I.D.: MW-8 Laboratory: Kiff CalScience (Other) CET

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

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 L MONITORING DATA SHI

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: JO	Date: 9-22-10
Well I.D.: MW-9	Well Diameter: 2 3 4 6 8 3/4
Total Well Depth (TD): 19.68	Depth to Water (DTW): 9.75
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]: 11.73	

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:) New Tubing

1 Case Volume	(Gals.) X	Specified Volumes	=	Calculated Volume	Gals.
0.2		3		0.6	

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
1334	16.0	7.77	2338	64	0.2	
1336	16.0	9.22	2280	58	0.4	
1338	16.3	9.34	2277	52	0.6	

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 9-22-10 Sampling Time: 1345 Depth to Water: 9.92

Sample I.D.: MW-9 Laboratory: Kiff CalScience (Other) CET

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

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[illegible]L MONITORING DATA SHI[illegible]

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-23-10
Well I.D.: MW-10	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): —	Depth to Water (DTW): 8.82
Depth to Free Product: 8.76	Thickness of Free Product (feet): 0.08
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: NEW TUBING)

_____ (Gals.) X _____ = _____ 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
1129	START		PURGE	@ 400 mL/MIN		ODOR
1135	END		PURGE			

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

Sampling Date: 9-23-10 Sampling Time: 1140 Depth to Water: SPH

Sample I.D.: MW-10 Laboratory: Kiff CalScience (Other) CET

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

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[illegible]L MONITORING DATA SHE[illegible]

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: JD	Date: 9-22-10
Well I.D.: MW-11	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 19.75	Depth to Water (DTW): 10.24
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]: 12.14	

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: new Tubing

0.2 (Gals.) X	3	=	0.6 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
1427	15.6	8.07	2761	>1000	0.2	
1429	15.7	7.63	2712	>1000	~~0.4~~ 0.4	
1431	15.6	7.64	2711	>1000	0.6	

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 9-22-10 Sampling Time: 1435 Depth to Water: 10.72

Sample I.D.: MW-11 Laboratory: Kiff CalScience (Other) CET

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

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[illegible]L MONITORING DATA SHI[illegible]

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FG	Date: 9-22-10
Well I.D.: MW-12	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 18.90	Depth to Water (DTW): 8.89
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]: 10.89	

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: NEW TUBING

1 Case Volume		Specified Volumes		Calculated Volume	
0.2	(Gals.) X	3	=	0.6	Gals.

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
1419	60.0	7.85	1569	5	0.2	
1425	59.6	7.61	1523	2	0.4	
1431	59.4	7.55	1495	3	0.6	

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 9-22-10 Sampling Time: 1435 Depth to Water: 8.90

Sample I.D.: MW-12 Laboratory: Kiff CalScience (Other) CET

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

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 L MONITORING DATA SHI

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-23-10
Well I.D.: MW-13	Well Diameter: 2 3 4 6 8 (2/4)
Total Well Depth (TD): —	Depth to Water (DTW): 10.18
Depth to Free Product: 9.40	Thickness of Free Product (feet): 0.78
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: NEW TUBING)

—		—	
_____(Gals.) X	—	=	_____ 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
1236	START		PURGE	@ 400 mL/MIN		
1242	END		PURGE			

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

Sampling Date: 9-23-10 Sampling Time: 1345 Depth to Water: SPH

Sample I.D.: MW-13 Laboratory: Kiff CalScience (Other) CET

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

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[illegible]L MONITORING DATA SHI[illegible]

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-23-10
Well I.D.: MW-14	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): —	Depth to Water (DTW): 8.62
Depth to Free Product: 8.56	Thickness of Free Product (feet): 0.08
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: NEW TUBING

— (Gals.) X — = — 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
1011	START		PURGE	@ 400	mL/MW	
1017	STOP		PURGE			

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

Sampling Date: 9-23-10 Sampling Time: 1020 Depth to Water: 8.70

Sample I.D.: MW-14 Laboratory: Kiff CalScience (Other) CET

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

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

* COULD NOT GET DTW DUE TO 3/4" CASING.

W L MONITORING DATA SHI

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-23-10
Well I.D.: MW-15	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): —	Depth to Water (DTW): 9.45
Depth to Free Product: 9.42	Thickness of Free Product (feet): 0.03
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:) NEW TUBING

____ (Gals.) X ____ = ____ 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
1038	BEGIN		PURGE	@ 400 mL/MIN		
1044	END		PURGE			

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

Sampling Date: 9-23-10 Sampling Time: 1050 Depth to Water: 9.53

Sample I.D.: MW-15 Laboratory: Kiff CalScience (Other) CET

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

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 #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-23-10
Well I.D.: MW-16	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 19.58	Depth to Water (DTW): 9.40
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]: 11.43	

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: NEW TUBING)

1 Case Volume	(Gals.) X	Specified Volumes	=	Calculated Volume	Gals.
0.3		3		0.9	

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
829	61.3	10.26	3021	18	0.3	LIGHT
832	60.4	10.28	3538	7	0.6	BROWN
836	60.3	10.28	3606	6	0.9	TINT

Did well dewater? Yes (No) Gallons actually evacuated: 0.9

Sampling Date: 9-23-10 Sampling Time: 845 Depth to Water: 9.65

Sample I.D.: MW-16 Laboratory: Kiff CalScience (Other) CET

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

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[illegible]L MONITORING DATA SHE[illegible]

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-22-10
Well I.D.: MW-17	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 19.53	Depth to Water (DTW): 9.15
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]: 11.22	

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

Sampling Method: Bailer; ~~Disposable Bailer~~ FS; Extraction Port; Dedicated Tubing; Other: NEW TUBING

1 Case Volume		Specified Volumes		Calculated Volume
0.7	(Gals.) X	3	=	0.6 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
1344	62.6	8.66	1345	22	0.2	
1346	62.5	8.38	1384	6	0.4	
1348	62.7	8.29	1397	4	0.6	

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 9-22-10 Sampling Time: 1355 Depth to Water: 9.25 (POST)

Sample I.D.: MW-17 Laboratory: Kiff CalScience (Other) CET

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

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 #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-23-10
Well I.D.: MW-18	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 19.60	Depth to Water (DTW): 8.28
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]: 10.54	

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:) NEW TUBING

0.3 (Gals.) X	3	= 0.9 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
900	60.8	7.95	7106	208	0.3	
904	59.6	7.25	7372	127	0.6	
908	59.5	7.18	7507	166	0.9	
★ SULFUR	ODOR	WATER	SAMPLING			

Did well dewater? Yes (No) Gallons actually evacuated: 0.9

Sampling Date: 9-23-10 Sampling Time: 915 Depth to Water: 8.84

Sample I.D.: MW-18 Laboratory: Kiff CalScience (Other) CET

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

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

★ HCL REACTED WITH SAMPLE, VOAS RINSED, NO PRESERVATIVE.

WELL MONITORING DATA SHEET

Project #: 100922-FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9-23-10
Well I.D.: MW-E	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 44.87	Depth to Water (DTW): 10.11
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]: 17.06	

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: NEW TUBING

1 Case Volume	Specified Volumes	Calculated Volume
5.6 (Gals.) X	3 =	16.8 Gals.

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

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
945	61.5	8.20	3383	323	5.6	DTW: 39.10
— WELL DEWATER @			9 GALLONS			—
1320	62.2	8.13	3594	988	—	

Did well dewater? (Yes) No Gallons actually evacuated: 9

Sampling Date: 9-23-10 Sampling Time: 1320 Depth to Water: 10.13

Sample I.D.: MW-E Laboratory: Kiff CalScience (Other) CET

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

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 L MONITORING DATA SHI

Project #: 100922 - FS1	Client: STELLAR @ BAY CENTER APTS.
Sampler: FS	Date: 9 - 23 - 10
Well I.D.: RW - 1	Well Diameter: 2 3 4 6 8 (10)
Total Well Depth (TD): —	Depth to Water (DTW): 9.65
Depth to Free Product: 9.50	Thickness of Free Product (feet): 0.15
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: NEW TUBING

_____(Gals.) X _____ = _____ 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
1258	START	PURGE	@	400 mL/min		
1304	PURGE	ENDED				

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

Sampling Date: 9-23-10 Sampling Time: 1310 Depth to Water: DRY

Sample I.D.: RW-1 Laboratory: Kiff CalScience (Other) CET

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

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

Chain of Custody Record

Lab job no. 100921-FS1
Date 9-22-10
Page 1 of 2

Laboratory CAT
Address 2323 FIFTH ST
BERKELEY, CA

Method of Shipment LAB COURIER
Shipment No.
Airbill No.
Cooler No.
Project Manager TERRI GLASS
Telephone No. (510) 644-3123
Fax No. (510) 644-3859
Samplers: (Signature)

Project Owner
Site Address 6400 CHRISTIE AVE
BERKELEY, CA
Project Name BAY CENTER APARTMENT
Project Number 2007-65

Field Sample Number	Location/ Depth	Date	Time	Sample Type	Type/Size of Container	Preservation: Cooler	Preservation: Chemical	Filtered	No. of Containers	TEH-D (8015)	TPH-G (8015)	BTEX + MTBE	Remarks
MW-11		9-22-10	1435	W	VOA AMBER		HCL VOAS		6	X	X	X	
MW-9			1345							X	X	X	
MW-4			1050							X	X	X	
MW-5			1120							X	X	X	
MW-7			1316							X	X	X	
MW-12			1435							X	X	X	
MW-17			1355							X	X	X	
MW-6			1310							X	X	X	
MW-3			1055							X	X	X	

Relinquished by:	Date	Received by:	Date	Relinquished by:	Date	Received by:	Date
Signature	9-23-10	Signature	9/23/10	Signature		Signature	
Printed FRANCIS SPRINGTON	Time	Printed Pat Gonzalez	Time	Printed	Time	Printed	Time
Company BLAINETECH	1500	Company CAT	1500	Company		Company	

Turnaround Time: STANDARD
Comments: EDF REQUIRED
GLOBAL ID # SLT2005561

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

2000-00-01

APPENDIX C

Analytical Laboratory Report and Chain-of-Custody Record


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

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

Laboratory Job Number 222673
ANALYTICAL REPORT

Stellar Environmental Solutions	Project : 2007-65
2198 6th Street	Location : Bay Center Apts
Berkeley, CA 94710	Level : II

Sample ID	Lab ID
MW-11	222673-001
MW-9	222673-002
MW-4	222673-003
MW-5	222673-004
MW-7	222673-005
MW-12	222673-006
MW-17	222673-007
MW-6	222673-008
MW-3	222673-009
MW-13	222673-010
MW-E	222673-011
RW-1	222673-012
MW-10	222673-013
MW-8	222673-014
MW-15	222673-015
MW-14	222673-016
MW-18	222673-017
MW-16	222673-018

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 10/07/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**222673**
Client:	**Stellar Environmental Solutions**
Project:	**2007-65**
Location:	**Bay Center Apts**
Request Date:	**09/23/10**
Samples Received:	**09/23/10**

This data package contains sample and QC results for eighteen water samples, requested for the above referenced project on 09/23/10. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):

High surrogate recovery was observed for bromofluorobenzene (FID) in the method blank for batch 167306; no target analytes were detected in the sample. High surrogate recovery was observed for bromofluorobenzene (PID) in the method blank for batch 167306; no target analytes were detected in the sample. MW-7 (lab # 222673-005) and MW-18 (lab # 222673-017) had pH greater than 2. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

MW-13 (lab # 222673-010) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

222673

Chain of Custody Record

Lab job no. 100921-FS1
Date 9-22-10
Page 1 of 2

Laboratory C&T
Address 2323 FIFTH ST
BERKELEY, CA

Project Owner
Site Address 6400 CHRISTIE AVE
BERKELEY, CA
Project Name BAY CENTER APARTMENTS
Project Number 2007-65

Method of Shipment LAB COURIER
Shipment No.
Airbill No.
Cooler No.
Project Manager TEAL GLASS
Telephone No. (510) 644-3123
Fax No. (510) 644-3859
Samplers: (Signature)

	Field Sample Number	Location/ Depth	Date	Time	Sample Type	Type/Size of Container	Preservation: Cooler	Preservation: Chemical	Filtered	No. of Containers	Analysis Required: TEH-D (8015m)	Analysis Required: TPH-G (8015m)	Analysis Required: BTEX & MTBE	Remarks
1	MW-11		9-22-10	1435	W	VOA & AMBER		HCL VOAS		6	X	X	X	
2	MW-9			1345							X	X	X	
3	MW-4			1050							X	X	X	
4	MW-5			1120							X	X	X	
5	MW-7			1316							X	X	X	
6	MW-12			1435							X	X	X	
7	MW-17			1355							X	X	X	
8	MW-6			1310							X	X	X	
9	MW-3			1055							X	X	X	

Relinquished by:	Date	Received by:	Date
Signature	9-23-10	Signature Pat Gonzalez	9/23/10
Printed FRANCIS SEIWONGTON	Time 1500	Printed Pat Gonzalez	Time 1500
Company BLAINETECH		Company C&T	

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

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

Turnaround Time: STANDARD
Comments: EDF REQUIRED
GLOBAL ID # SLT20Ø5561

2000-00-01

★ Stellar Environmental Solutions

2198 Sixth Street #201, Berkeley, CA 94710

222673

Chain of Custody Record

Lab job no. 100922-FS1
Date 9-23-10
Page 2 of 2

Laboratory CAT
Address 2323 FIFTH ST
BERKELEY, CA

Method of Shipment LAB COURIER
Shipment No.
Airbill No.
Cooler No.
Project Manager TEAL GLASS
Telephone No. (510) 644-3123
Fax No. (510) 644-3859
Samplers: (Signature)

Project Owner
Site Address 6400 CHRISTIE AVE
BERKELEY, CA
Project Name BAY CENTER APARTMENT
Project Number 2007-65

	Field Sample Number	Location/ Depth	Date	Time	Sample Type	Type/Size of Container	Preservation: Cooler	Preservation: Chemical	Filtered	No. of Containers	Analysis Required: TEH-D (8015m)	Analysis Required: TPH-G (8015m)	Analysis Required: BTEX + MTBE	Remarks
10	MW-13		9-23-10	1345	W	VOA + AMBER		HCL VOAS		6	X	X	X	
11	MW-E			1320							X	X	X	
12	RW-1			1310							X	X	X	
13	MW-10			1140							X	X	X	
14	MW-8			1115							X	X	X	
15	MW-15			1050							X	X	X	
16	MW-14			1020							X	X	X	
17	MW-18			0915				NONE			X	X	X	NO PRESERVE IN VOAS
18	MW-16			845				HCL VOAS			X	X	X	
	~~MW-F~~							ICE						

Relinquished by:	Date	Received by:	Date	Relinquished by:	Date	Received by:	Date
Signature	9-23-10	Signature	9/23/10	Signature		Signature	
Printed T. SIMONTON	Time 1500	Printed Pat Gonzalez	Time 1500	Printed	Time	Printed	Time
Company BLAINETECH		Company CAT		Company		Company	

Turnaround Time: STANDARD
Comments: EDF REQUIRED
GLOBAL ID # SLT2005561

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

2000-00-01

★ Stellar Environmental Solutions

2198 Sixth Street #201, Berkeley, CA 94710

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 222673 Date Received 9/23/10 Number of coolers 2
Client SES Project BAY CENTER ART

Date Opened 9/23/10 By (print) M. VILLANUEVA (sign)
Date Logged in ✓ By (print) ✓ (sign) ✓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
   Shipping info _____
2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ YES NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 1.8

☐ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are samples in the appropriate containers for indicated tests? _____ YES NO
11. Are sample labels present, in good condition and complete? _____ YES NO
12. Do the sample labels agree with custody papers? _____ YES NO
13. Was sufficient amount of sample sent for tests requested? _____ YES NO
14. Are the samples appropriately preserved? _____ YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
16. Was the client contacted concerning this sample delivery? _____ YES NO
    If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-11	Batch#:	167306
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-001	Analyzed:	09/27/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	1,300	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	330	0.50	EPA 8021B
Toluene	15	0.50	EPA 8021B
Ethylbenzene	9.2	0.50	EPA 8021B
m,p-Xylenes	14	0.50	EPA 8021B
o-Xylene	3.3	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	104	70-140	EPA 8015B
Bromofluorobenzene (PID)	96	54-134	EPA 8021B

Field ID:	MW-9	Batch#:	167306
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-002	Analyzed:	09/27/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	170	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	4.8	0.50	EPA 8021B
Toluene	0.77	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	99	70-140	EPA 8015B
Bromofluorobenzene (PID)	90	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-4	Batch#:	167306
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-003	Analyzed:	09/27/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	71 Y	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	102	70-140	EPA 8015B
Bromofluorobenzene (PID)	93	54-134	EPA 8021B

Field ID:	MW-5	Batch#:	167306
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-004	Analyzed:	09/27/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	2.0	2.0	EPA 8021B
Benzene	0.58	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	87	70-140	EPA 8015B
Bromofluorobenzene (PID)	81	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-7	Batch#:	167368
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-005	Analyzed:	09/28/10
Diln Fac:	10.00		

Analyte	Result	RL	Analysis
Gasoline C7-C12	1,300	500	EPA 8015B
MTBE	ND	20	EPA 8021B
Benzene	580	5.0	EPA 8021B
Toluene	54	5.0	EPA 8021B
Ethylbenzene	35	5.0	EPA 8021B
m,p-Xylenes	130	5.0	EPA 8021B
o-Xylene	33	5.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	90	70-140	EPA 8015B
Bromofluorobenzene (PID)	84	54-134	EPA 8021B

Field ID:	MW-12	Batch#:	167368
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-006	Analyzed:	09/28/10
Diln Fac:	50.00		

Analyte	Result	RL	Analysis
Gasoline C7-C12	4,900	2,500	EPA 8015B
MTBE	ND	100	EPA 8021B
Benzene	5,900	25	EPA 8021B
Toluene	97	25	EPA 8021B
Ethylbenzene	47	25	EPA 8021B
m,p-Xylenes	73	25	EPA 8021B
o-Xylene	ND	25	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	103	70-140	EPA 8015B
Bromofluorobenzene (PID)	97	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-17	Batch#:	167368
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-007	Analyzed:	09/28/10
Diln Fac:	20.00		

Analyte	Result	RL	Analysis
Gasoline C7-C12	3,500	1,000	EPA 8015B
MTBE	ND	40	EPA 8021B
Benzene	1,400	10	EPA 8021B
Toluene	62	10	EPA 8021B
Ethylbenzene	46	10	EPA 8021B
m,p-Xylenes	59	10	EPA 8021B
o-Xylene	18	10	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	103	70-140	EPA 8015B
Bromofluorobenzene (PID)	98	54-134	EPA 8021B

Field ID:	MW-6	Batch#:	167368
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-008	Analyzed:	09/29/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	72 Y	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	1.0	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	94	70-140	EPA 8015B
Bromofluorobenzene (PID)	86	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-3	Batch#:	167368
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-009	Analyzed:	09/29/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	470	50	EPA 8015B
MTBE	2.9	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	0.64 C	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	1.6 C	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	100	70-140	EPA 8015B
Bromofluorobenzene (PID)	87	54-134	EPA 8021B

Field ID:	MW-13	Batch#:	167368
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-010	Analyzed:	09/29/10
Diln Fac:	2,000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	1,700,000	100,000	EPA 8015B
MTBE	7,000	4,000	EPA 8021B
Benzene	21,000	1,000	EPA 8021B
Toluene	2,300	1,000	EPA 8021B
Ethylbenzene	30,000	1,000	EPA 8021B
m,p-Xylenes	15,000	1,000	EPA 8021B
o-Xylene	2,200	1,000	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	101	70-140	EPA 8015B
Bromofluorobenzene (PID)	92	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-E	Batch#:	167368
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-011	Analyzed:	09/29/10
Diln Fac:	25.00		

Analyte	Result	RL	Analysis
Gasoline C7-C12	1,800	1,300	EPA 8015B
MTBE	ND	50	EPA 8021B
Benzene	2,200	13	EPA 8021B
Toluene	45	13	EPA 8021B
Ethylbenzene	64	13	EPA 8021B
m,p-Xylenes	63	13	EPA 8021B
o-Xylene	15	13	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	99	70-140	EPA 8015B
Bromofluorobenzene (PID)	95	54-134	EPA 8021B

Field ID:	RW-1	Batch#:	167307
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-012	Analyzed:	09/27/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	860	50	EPA 8015B
MTBE	8.0 C	2.0	EPA 8021B
Benzene	170	0.50	EPA 8021B
Toluene	4.0	0.50	EPA 8021B
Ethylbenzene	5.6	0.50	EPA 8021B
m,p-Xylenes	1.9	0.50	EPA 8021B
o-Xylene	0.86	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	111	70-140	EPA 8015B
Bromofluorobenzene (PID)	92	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-10	Batch#:	167368
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-013	Analyzed:	09/29/10
Diln Fac:	20.00		

Analyte	Result	RL	Analysis
Gasoline C7-C12	3,400	1,000	EPA 8015B
MTBE	ND	40	EPA 8021B
Benzene	1,500	10	EPA 8021B
Toluene	47	10	EPA 8021B
Ethylbenzene	18	10	EPA 8021B
m,p-Xylenes	44	10	EPA 8021B
o-Xylene	ND	10	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	102	70-140	EPA 8015B
Bromofluorobenzene (PID)	90	54-134	EPA 8021B

Field ID:	MW-8	Batch#:	167368
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-014	Analyzed:	09/29/10
Diln Fac:	50.00		

Analyte	Result	RL	Analysis
Gasoline C7-C12	7,800	2,500	EPA 8015B
MTBE	ND	100	EPA 8021B
Benzene	8,800	25	EPA 8021B
Toluene	110	25	EPA 8021B
Ethylbenzene	620	25	EPA 8021B
m,p-Xylenes	180	25	EPA 8021B
o-Xylene	32	25	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	103	70-140	EPA 8015B
Bromofluorobenzene (PID)	101	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-15	Batch#:	167368
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-015	Analyzed:	09/29/10
Diln Fac:	50.00		

Analyte	Result	RL	Analysis
Gasoline C7-C12	5,800	2,500	EPA 8015B
MTBE	ND	100	EPA 8021B
Benzene	8,100	25	EPA 8021B
Toluene	95	25	EPA 8021B
Ethylbenzene	170	25	EPA 8021B
m,p-Xylenes	71	25	EPA 8021B
o-Xylene	ND	25	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	107	70-140	EPA 8015B
Bromofluorobenzene (PID)	97	54-134	EPA 8021B

Field ID:	MW-14	Batch#:	167368
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-016	Analyzed:	09/29/10
Diln Fac:	20.00		

Analyte	Result	RL	Analysis
Gasoline C7-C12	2,000	1,000	EPA 8015B
MTBE	ND	40	EPA 8021B
Benzene	1,700	10	EPA 8021B
Toluene	44	10	EPA 8021B
Ethylbenzene	98	10	EPA 8021B
m,p-Xylenes	70	10	EPA 8021B
o-Xylene	19	10	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	99	70-140	EPA 8015B
Bromofluorobenzene (PID)	91	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-18	Batch#:	167368
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-017	Analyzed:	09/29/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	94	70-140	EPA 8015B
Bromofluorobenzene (PID)	85	54-134	EPA 8021B

Field ID:	MW-16	Batch#:	167307
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-018	Analyzed:	09/28/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	77	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	12	0.50	EPA 8021B
Toluene	1.9	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	0.55 C	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	108	70-140	EPA 8015B
Bromofluorobenzene (PID)	88	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Type:	BLANK	Batch#:	167306
Lab ID:	QC561758	Analyzed:	09/27/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	185 *	70-140	EPA 8015B
Bromofluorobenzene (PID)	174 *	54-134	EPA 8021B

Type:	BLANK	Batch#:	167307
Lab ID:	QC561764	Analyzed:	09/27/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	106	70-140	EPA 8015B
Bromofluorobenzene (PID)	89	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Type:	BLANK	Batch#:	167368
Lab ID:	QC562011	Analyzed:	09/28/10
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	101	70-140	EPA 8015B
Bromofluorobenzene (PID)	95	54-134	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Batch#:	167306
Units:	ug/L	Analyzed:	09/27/10
Diln Fac:	1.000		

Type: BS Lab ID: QC561759

Analyte	Spiked	Result	%REC	Limits	Analysis
MTBE	10.00	11.37	114	57-150	EPA 8021B
Benzene	10.00	10.06	101	70-122	EPA 8021B
Toluene	10.00	10.26	103	72-125	EPA 8021B
Ethylbenzene	10.00	10.67	107	72-126	EPA 8021B
m,p-Xylenes	10.00	10.35	103	73-126	EPA 8021B
o-Xylene	10.00	10.81	108	71-127	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	105	70-140	EPA 8015B
Bromofluorobenzene (PID)	99	54-134	EPA 8021B

Type: BSD Lab ID: QC561760

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
MTBE	10.00	12.27	123	57-150	8	46	EPA 8021B
Benzene	10.00	9.497	95	70-122	6	33	EPA 8021B
Toluene	10.00	9.656	97	72-125	6	25	EPA 8021B
Ethylbenzene	10.00	9.649	96	72-126	10	26	EPA 8021B
m,p-Xylenes	10.00	9.778	98	73-126	6	25	EPA 8021B
o-Xylene	10.00	9.963	100	71-127	8	25	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	98	70-140	EPA 8015B
Bromofluorobenzene (PID)	95	54-134	EPA 8021B

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC561761	Batch#:	167306
Matrix:	Water	Analyzed:	09/27/10
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1,000	1,146	115	73-127	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	103	70-140	EPA 8015B
Bromofluorobenzene (PID)	99	54-134	EPA 8021B

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Field ID:	MW-11	Batch#:	167306
MSS Lab ID:	222673-001	Sampled:	09/22/10
Matrix:	Water	Received:	09/23/10
Units:	ug/L	Analyzed:	09/27/10
Diln Fac:	1.000		

Type: MS Lab ID: QC561762

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1,298	2,000	3,019	86	68-120	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	100	70-140	EPA 8015B
Bromofluorobenzene (PID)	88	54-134	EPA 8021B

Type: MSD Lab ID: QC561763

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12	2,000	3,041	87	68-120	1	20	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	101	70-140	EPA 8015B
Bromofluorobenzene (PID)	90	54-134	EPA 8021B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Batch#:	167307
Units:	ug/L	Analyzed:	09/27/10
Diln Fac:	1.000		

Type: BS Lab ID: QC561765

Analyte	Spiked	Result	%REC	Limits	Analysis
MTBE	10.00	9.337	93	57-150	EPA 8021B
Benzene	10.00	10.01	100	70-122	EPA 8021B
Toluene	10.00	9.301	93	72-125	EPA 8021B
Ethylbenzene	10.00	9.543	95	72-126	EPA 8021B
m,p-Xylenes	10.00	9.521	95	73-126	EPA 8021B
o-Xylene	10.00	9.676	97	71-127	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	103	70-140	EPA 8015B
Bromofluorobenzene (PID)	87	54-134	EPA 8021B

Type: BSD Lab ID: QC561766

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
MTBE	10.00	10.62	106	57-150	13	46	EPA 8021B
Benzene	10.00	10.81	108	70-122	8	33	EPA 8021B
Toluene	10.00	10.08	101	72-125	8	25	EPA 8021B
Ethylbenzene	10.00	9.891	99	72-126	4	26	EPA 8021B
m,p-Xylenes	10.00	10.09	101	73-126	6	25	EPA 8021B
o-Xylene	10.00	9.982	100	71-127	3	25	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	105	70-140	EPA 8015B
Bromofluorobenzene (PID)	89	54-134	EPA 8021B

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC561767	Batch#:	167307
Matrix:	Water	Analyzed:	09/27/10
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1,000	1,070	107	73-127	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	107	70-140	EPA 8015B
Bromofluorobenzene (PID)	87	54-134	EPA 8021B

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Field ID:	ZZZZZZZZZZ	Batch#:	167307
MSS Lab ID:	222687-003	Sampled:	09/23/10
Matrix:	Water	Received:	09/24/10
Units:	ug/L	Analyzed:	09/27/10
Diln Fac:	1.000		

Type: MS Lab ID: QC561768

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	26.30	2,000	1,801	89	68-120	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	108	70-140	EPA 8015B
Bromofluorobenzene (PID)	91	54-134	EPA 8021B

Type: MSD Lab ID: QC561769

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12	2,000	1,848	91	68-120	3	20	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	107	70-140	EPA 8015B
Bromofluorobenzene (PID)	92	54-134	EPA 8021B

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC562012	Batch#:	167368
Matrix:	Water	Analyzed:	09/28/10
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1,000	970.9	97	73-127	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	105	70-140	EPA 8015B
Bromofluorobenzene (PID)	97	54-134	EPA 8021B

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Field ID:	ZZZZZZZZZZ	Batch#:	167368
MSS Lab ID:	222668-002	Sampled:	09/22/10
Matrix:	Water	Received:	09/24/10
Units:	ug/L	Analyzed:	09/28/10
Diln Fac:	1.000		

Type: MS Lab ID: QC562013

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	66.28	2,000	2,014	97	68-120	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	110	70-140	EPA 8015B
Bromofluorobenzene (PID)	102	54-134	EPA 8021B

Type: MSD Lab ID: QC562014

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12	2,000	1,965	95	68-120	2	20	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	109	70-140	EPA 8015B
Bromofluorobenzene (PID)	100	54-134	EPA 8021B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Batch#:	167368
Units:	ug/L	Analyzed:	09/28/10
Diln Fac:	1.000		

Type: BS Lab ID: QC562015

Analyte	Spiked	Result	%REC	Limits	Analysis
MTBE	10.00	10.00	100	57-150	EPA 8021B
Benzene	10.00	10.30	103	70-122	EPA 8021B
Toluene	10.00	9.547	95	72-125	EPA 8021B
Ethylbenzene	10.00	9.501	95	72-126	EPA 8021B
m,p-Xylenes	10.00	9.954	100	73-126	EPA 8021B
o-Xylene	10.00	9.944	99	71-127	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	102	70-140	EPA 8015B
Bromofluorobenzene (PID)	95	54-134	EPA 8021B

Type: BSD Lab ID: QC562016

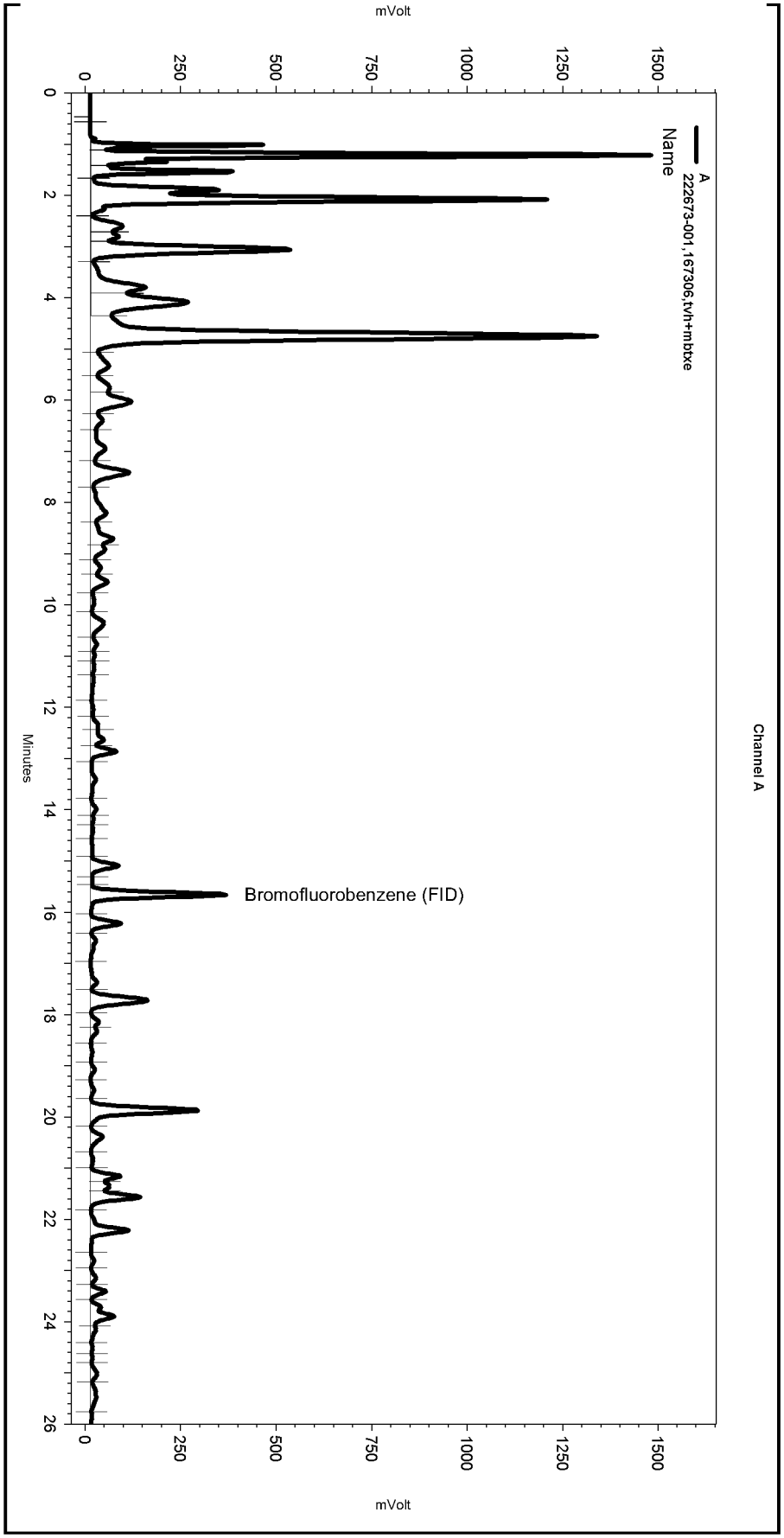
Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
MTBE	10.00	9.852	99	57-150	1	46	EPA 8021B
Benzene	10.00	10.84	108	70-122	5	33	EPA 8021B
Toluene	10.00	10.63	106	72-125	11	25	EPA 8021B
Ethylbenzene	10.00	11.27	113	72-126	17	26	EPA 8021B
m,p-Xylenes	10.00	11.46	115	73-126	14	25	EPA 8021B
o-Xylene	10.00	11.70	117	71-127	16	25	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	106	70-140	EPA 8015B
Bromofluorobenzene (PID)	97	54-134	EPA 8021B

RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\270.seq**
Sample Name: **222673-001,167306,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\270-006**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe267.met

Software Version 3.1.7
Run Date: 9/27/2010 7:42:29 PM
Analysis Date: 9/28/2010 5:08:39 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0



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Integration Events

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

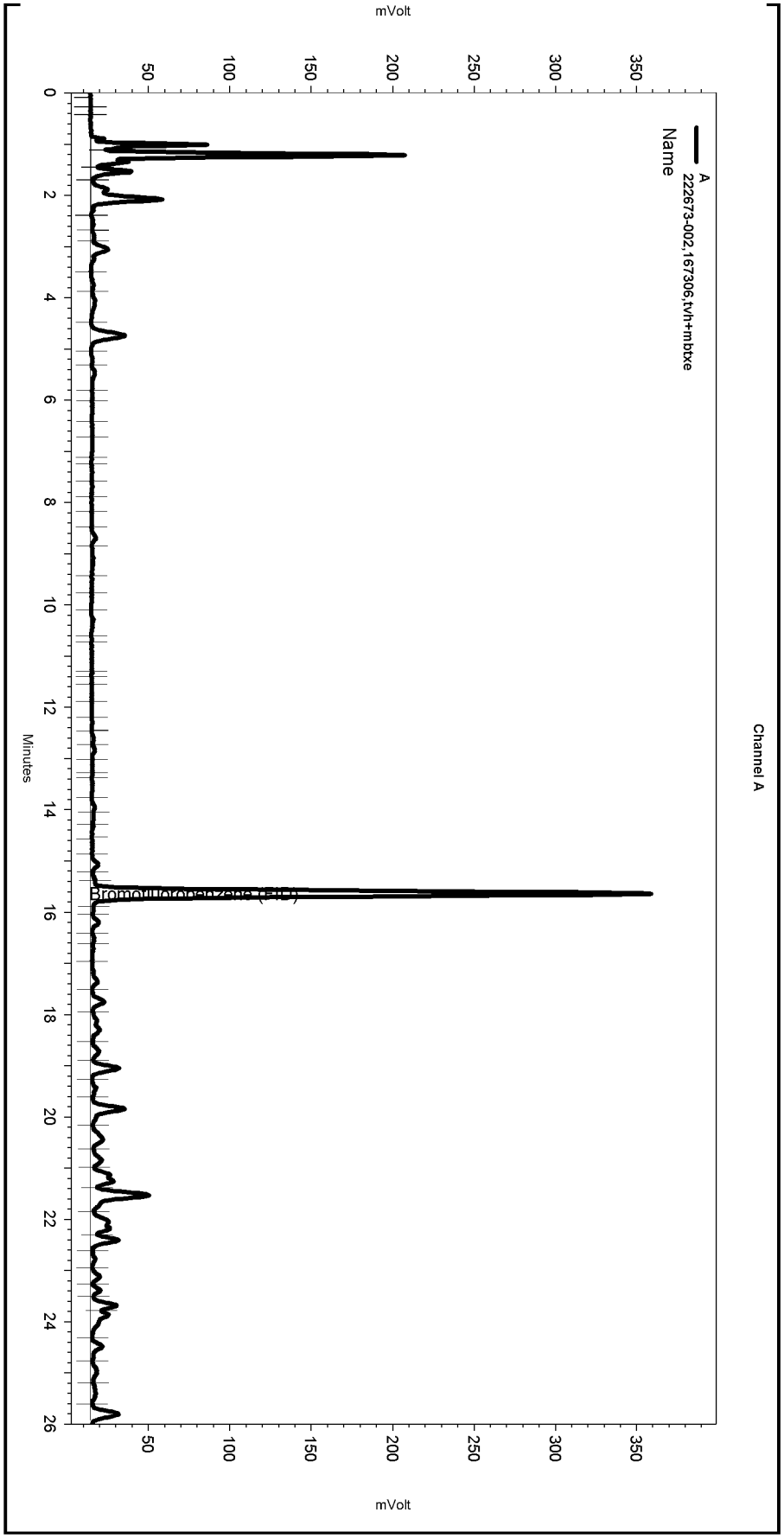
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\270-006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.371	26.017	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\270.seq**
Sample Name: **222673-002,167306,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\270-009**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe267.met

Software Version 3.1.7
Run Date: 9/27/2010 9:32:12 PM
Analysis Date: 9/28/2010 5:14:15 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0



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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

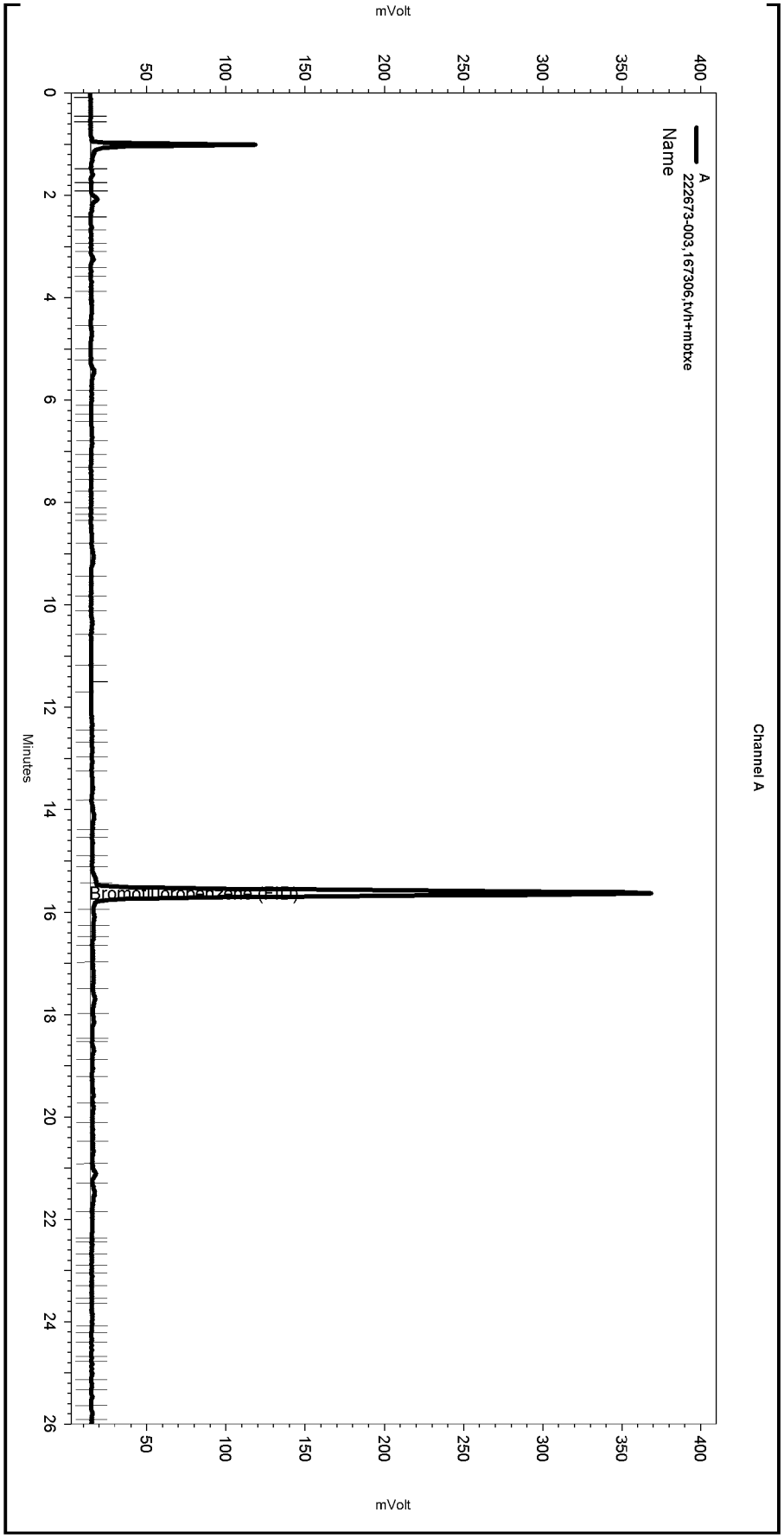
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\270-009

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.15	25.939	0
Yes	Split Peak	15.383	0	0
Yes	Split Peak	15.895	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\270.seq**
Sample Name: **222673-003,167306,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\270-010**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe267.met

Software Version 3.1.7
Run Date: 9/27/2010 10:08:51 PM
Analysis Date: 9/28/2010 5:16:00 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0



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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

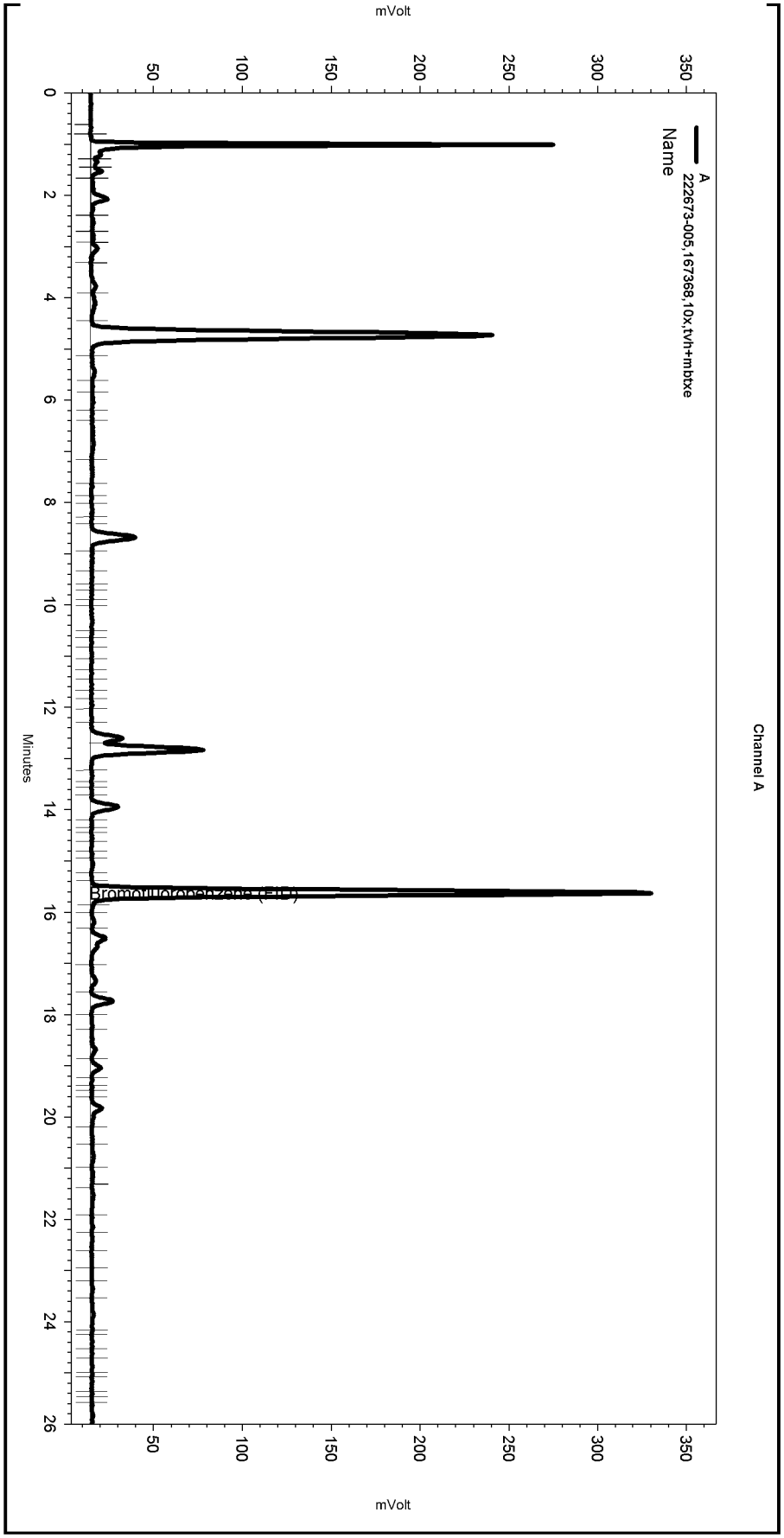
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\270-010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.101	25.71	0
Yes	Split Peak	15.434	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-005,167368,10x,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-010**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/28/2010 9:48:21 PM
Analysis Date: 9/29/2010 2:57:00 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c7.0



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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

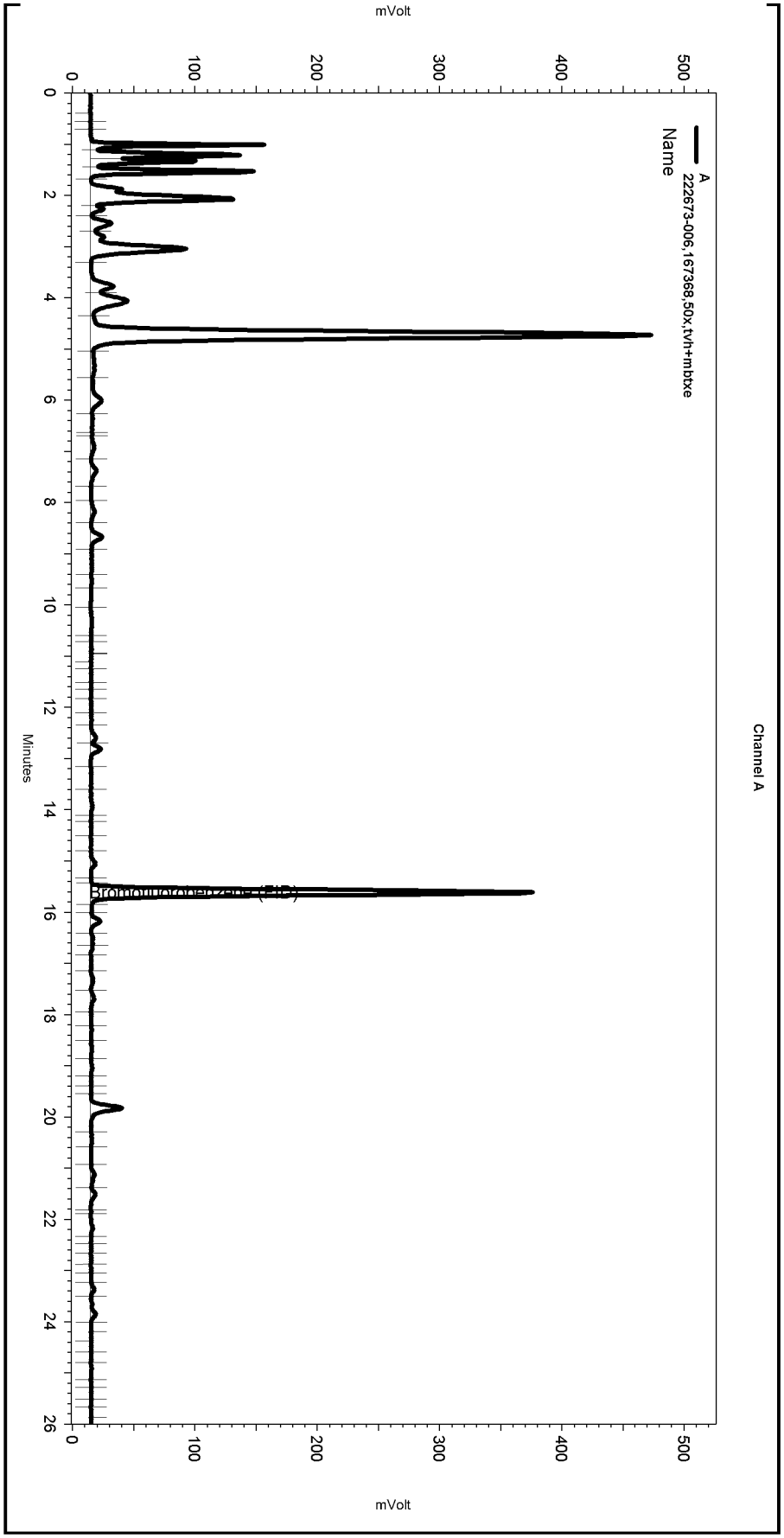
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-010

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.047	26.017	0
Yes	Split Peak	15.391	0	0
Yes	Split Peak	15.863	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-006,167368,50x,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-011**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/28/2010 10:24:59 PM
Analysis Date: 9/29/2010 3:00:15 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c1.0



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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

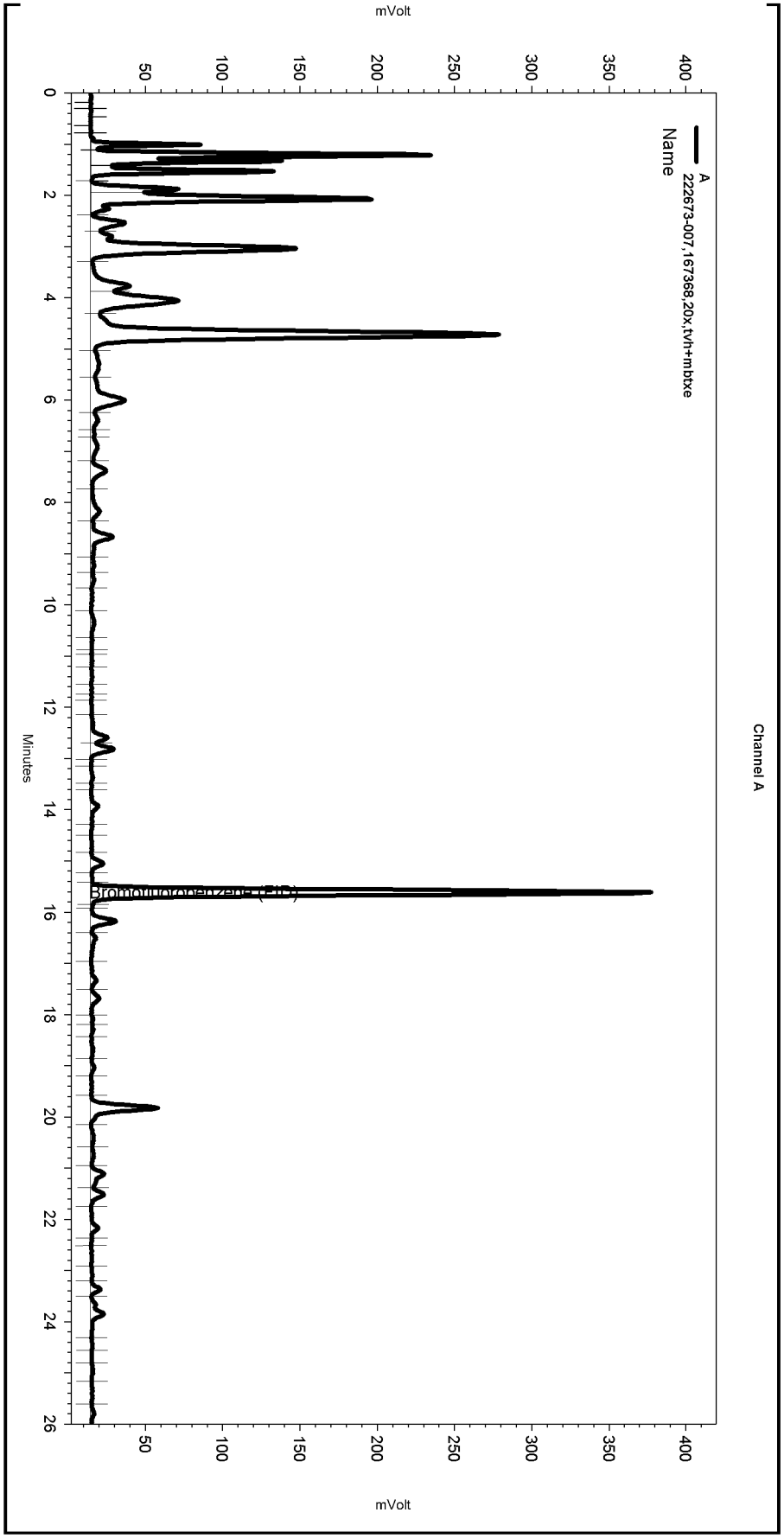
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-011

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.317	25.953	0
Yes	Split Peak	15.43	0	0
Yes	Split Peak	15.853	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-007,167368,20x,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-012**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/28/2010 11:01:36 PM
Analysis Date: 9/29/2010 3:04:07 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c1.0



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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

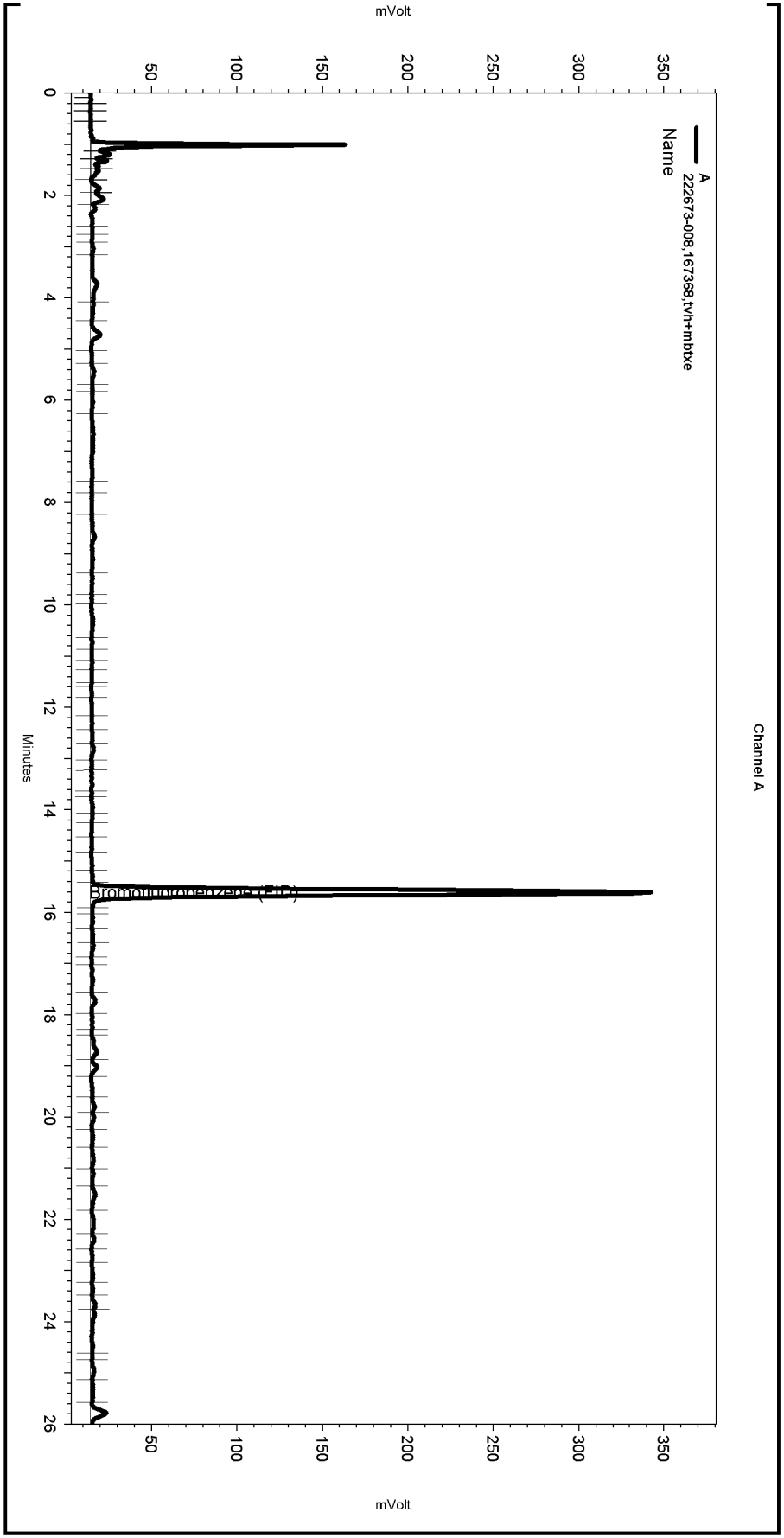
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.201	25.953	0
Yes	Split Peak	15.409	0	0
Yes	Split Peak	15.843	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-008,167368,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-016**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/29/2010 1:27:50 AM
Analysis Date: 9/29/2010 3:15:03 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c1.0



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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

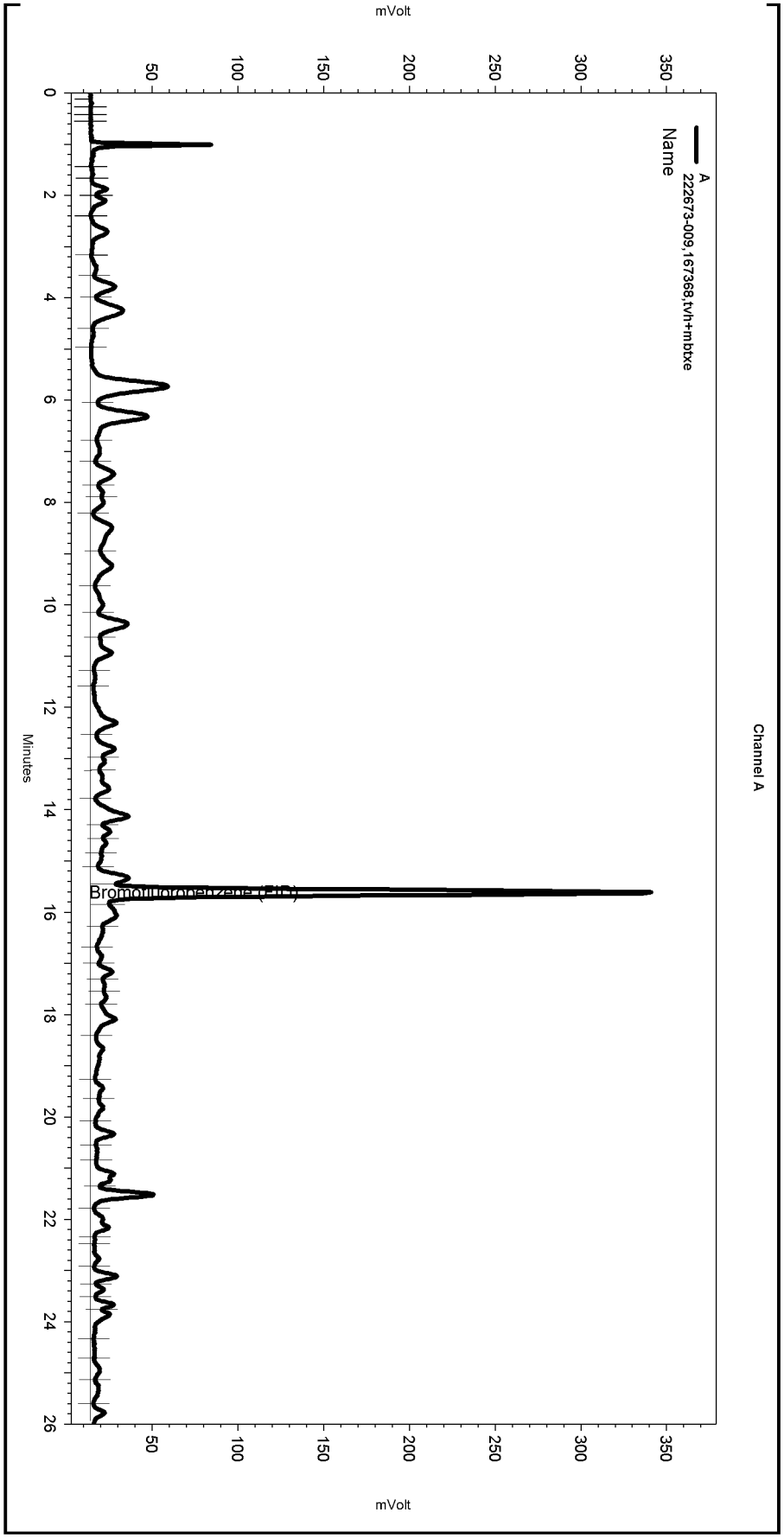
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.061	25.961	0
Yes	Split Peak	15.424	0	0
Yes	Split Peak	15.919	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-009,167368,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-017**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/29/2010 2:04:22 AM
Analysis Date: 9/29/2010 3:17:11 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c1.0



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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

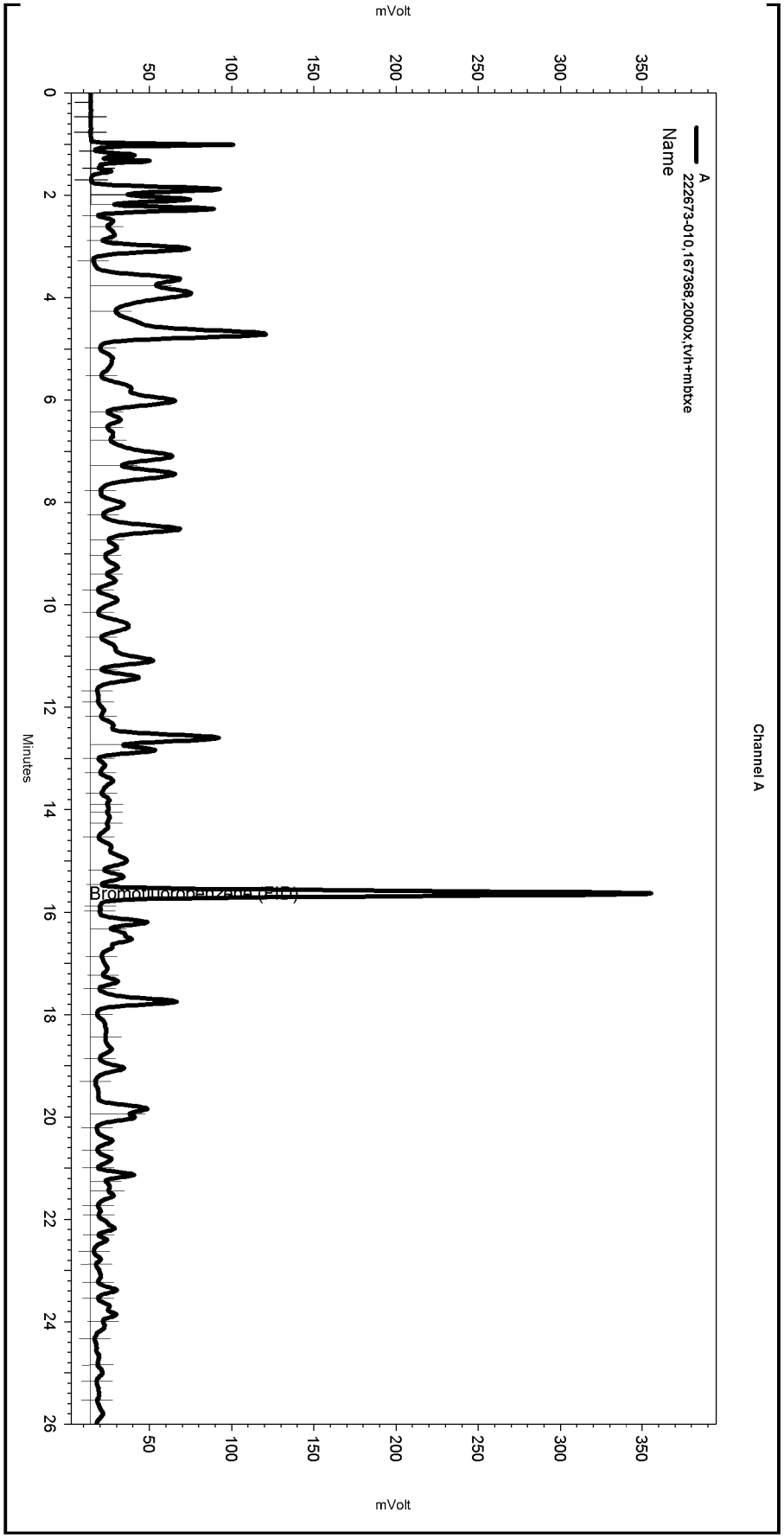
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-017

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.019	25.953	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-010,167368,2000x,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-029**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/29/2010 12:07:39 PM
Analysis Date: 9/29/2010 3:41:22 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b1.0



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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

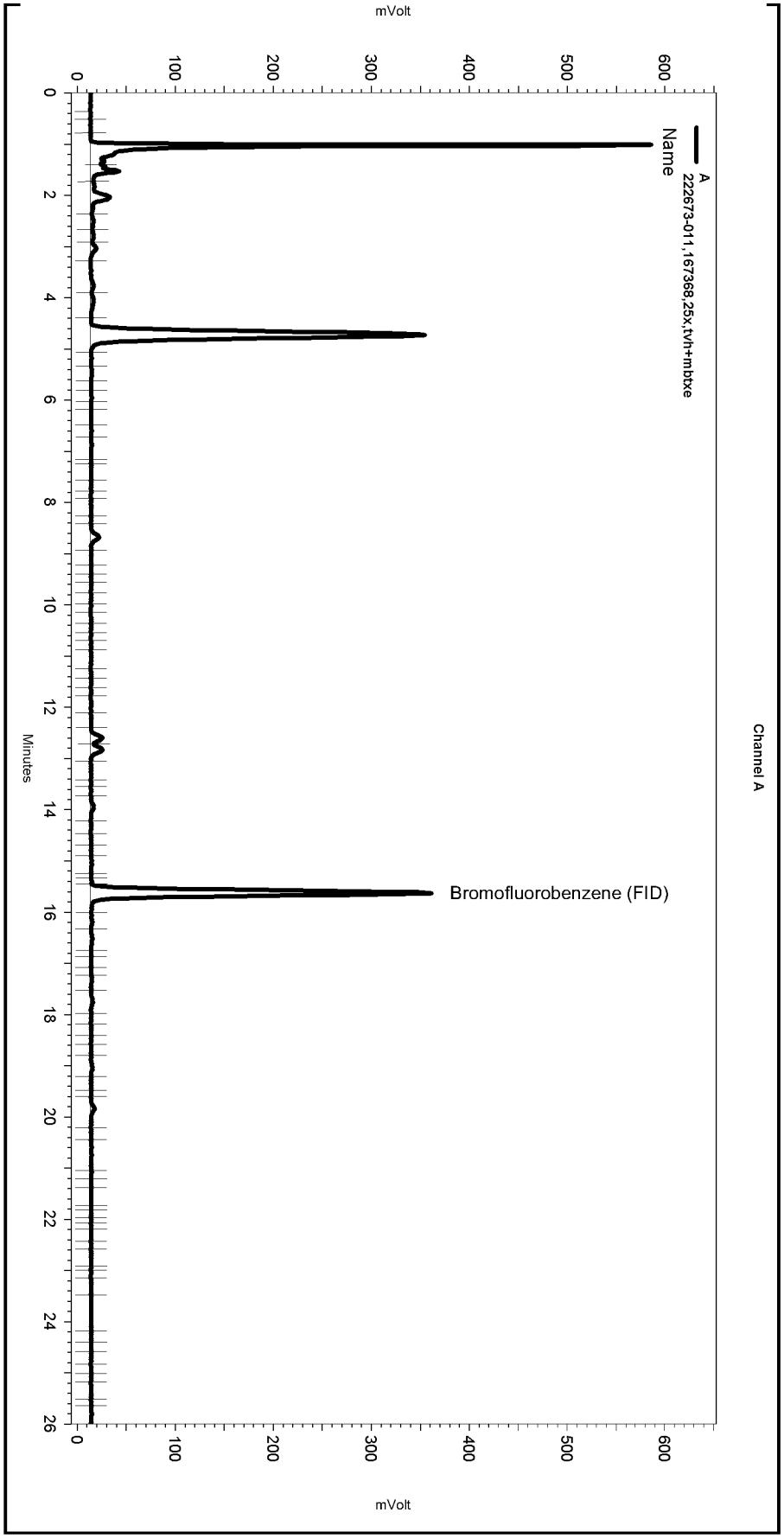
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.154	26.007	0
Yes	Split Peak	15.885	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-011,167368,25x,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-030**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/29/2010 12:44:12 PM
Analysis Date: 9/29/2010 3:43:53 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b1.0



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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

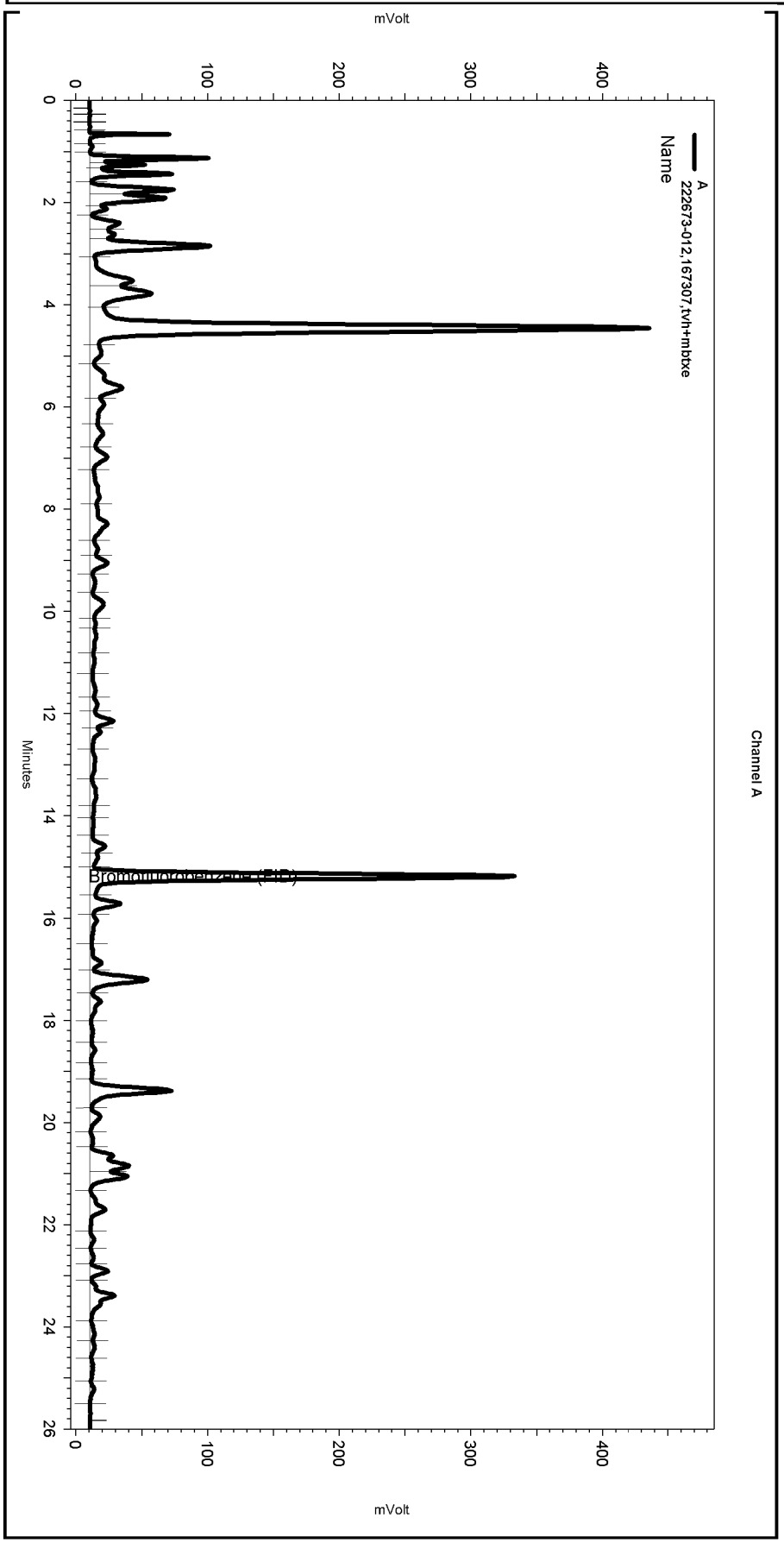
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.172	25.917	0
Yes	Split Peak	15.339	0	0
Yes	Split Peak	15.45	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\270.seq**
Sample Name: **222673-012,167307,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\270-013**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe265.met

Software Version 3.1.7
Run Date: 9/27/2010 11:19:18 PM
Analysis Date: 9/28/2010 4:23:47 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0



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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

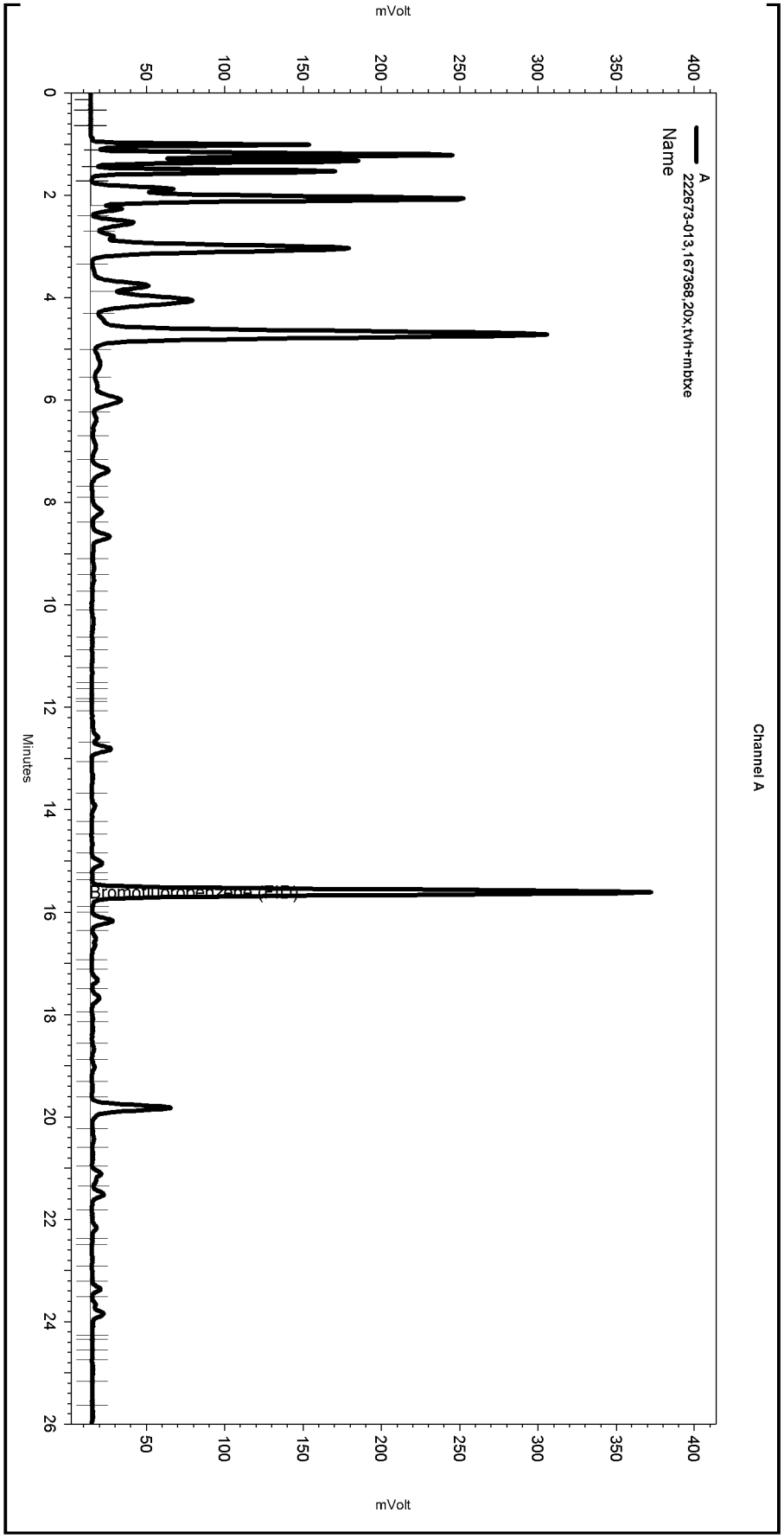
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\270-013

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.101	26.007	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-013,167368,20x,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-020**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/29/2010 3:54:13 AM
Analysis Date: 9/29/2010 3:23:59 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c1.0



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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

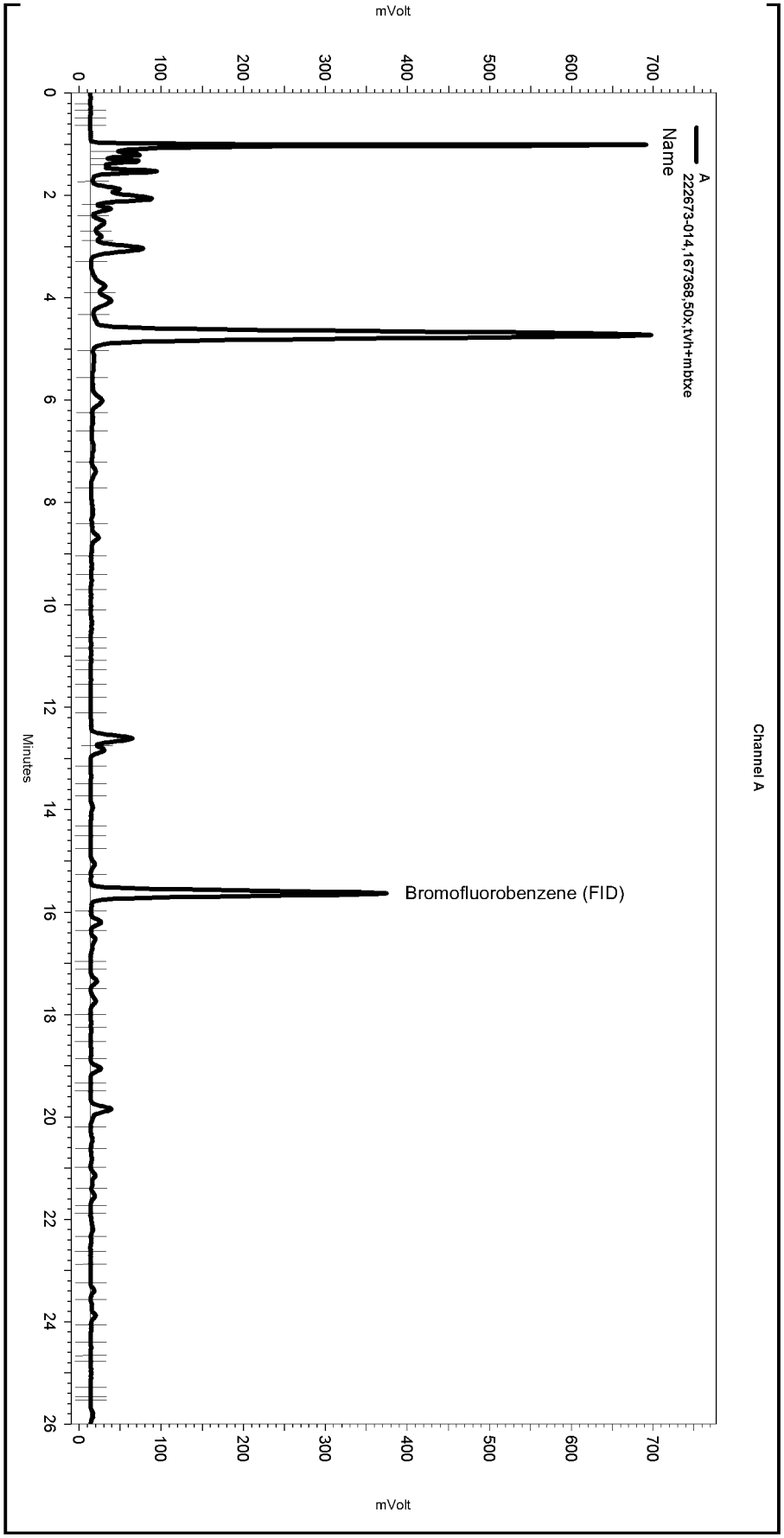
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-020

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.074	26.007	0
Yes	Split Peak	15.894	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-014,167368,50x,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-031**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/29/2010 1:20:46 PM
Analysis Date: 9/29/2010 3:46:13 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b1.0



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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

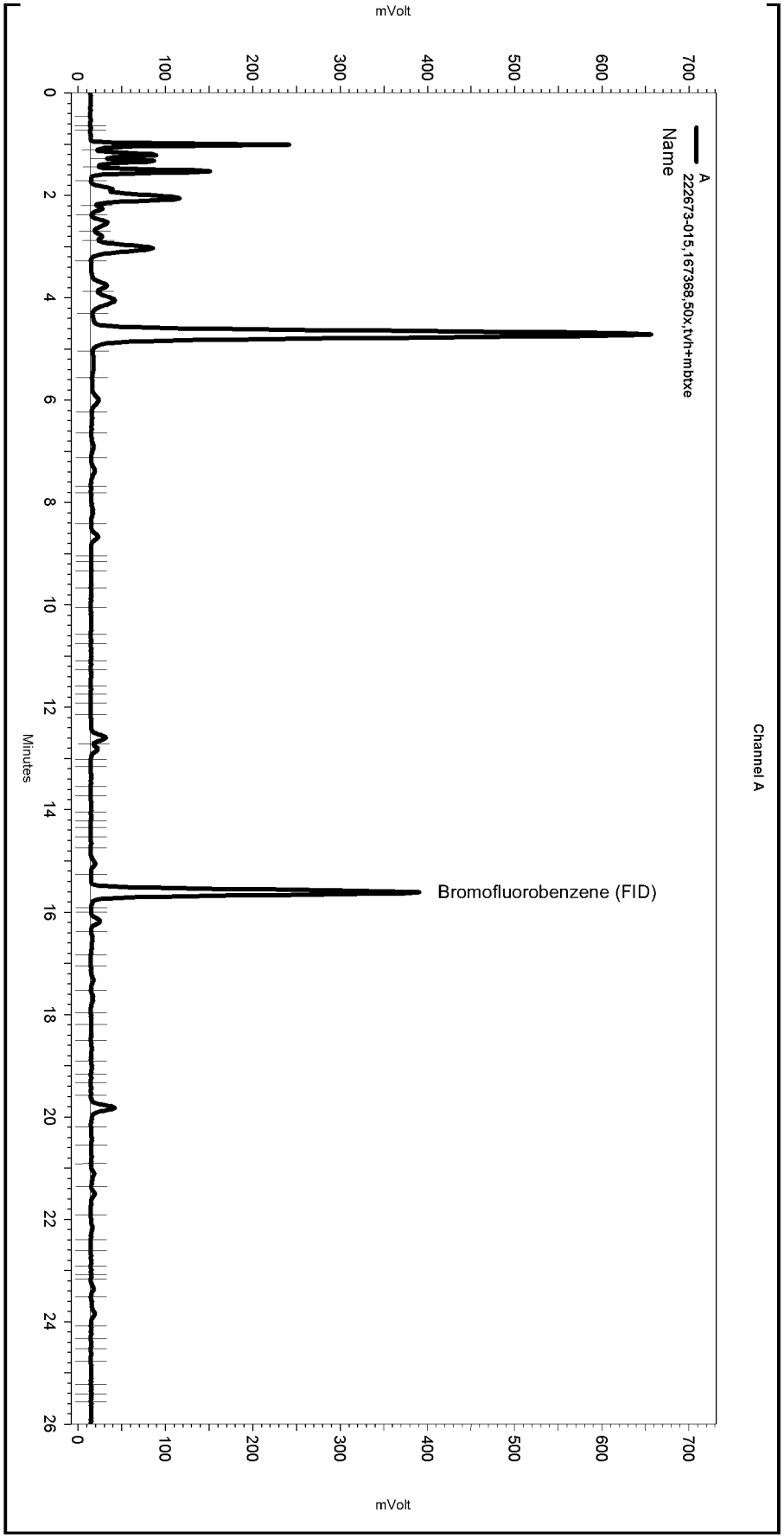
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	25.953	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-015,167368,50x,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-022**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/29/2010 5:07:21 AM
Analysis Date: 9/29/2010 3:29:03 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c1.0



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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

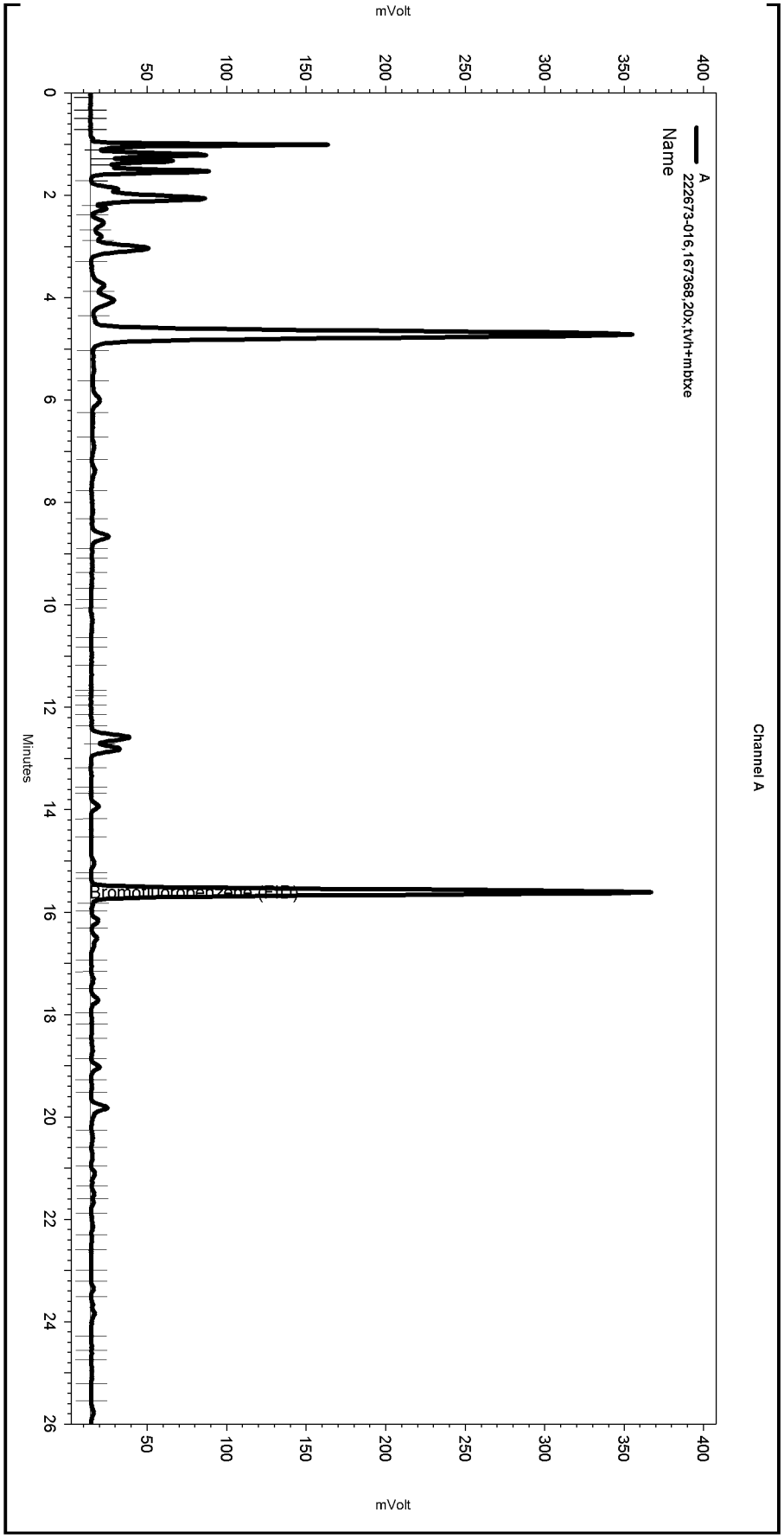
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.209	26.017	0
Yes	Split Peak	15.92	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\271.seq**
Sample Name: **222673-016,167368,20x,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\271-023**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe271.met

Software Version 3.1.7
Run Date: 9/29/2010 5:43:54 AM
Analysis Date: 9/29/2010 3:31:19 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: c1.0



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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

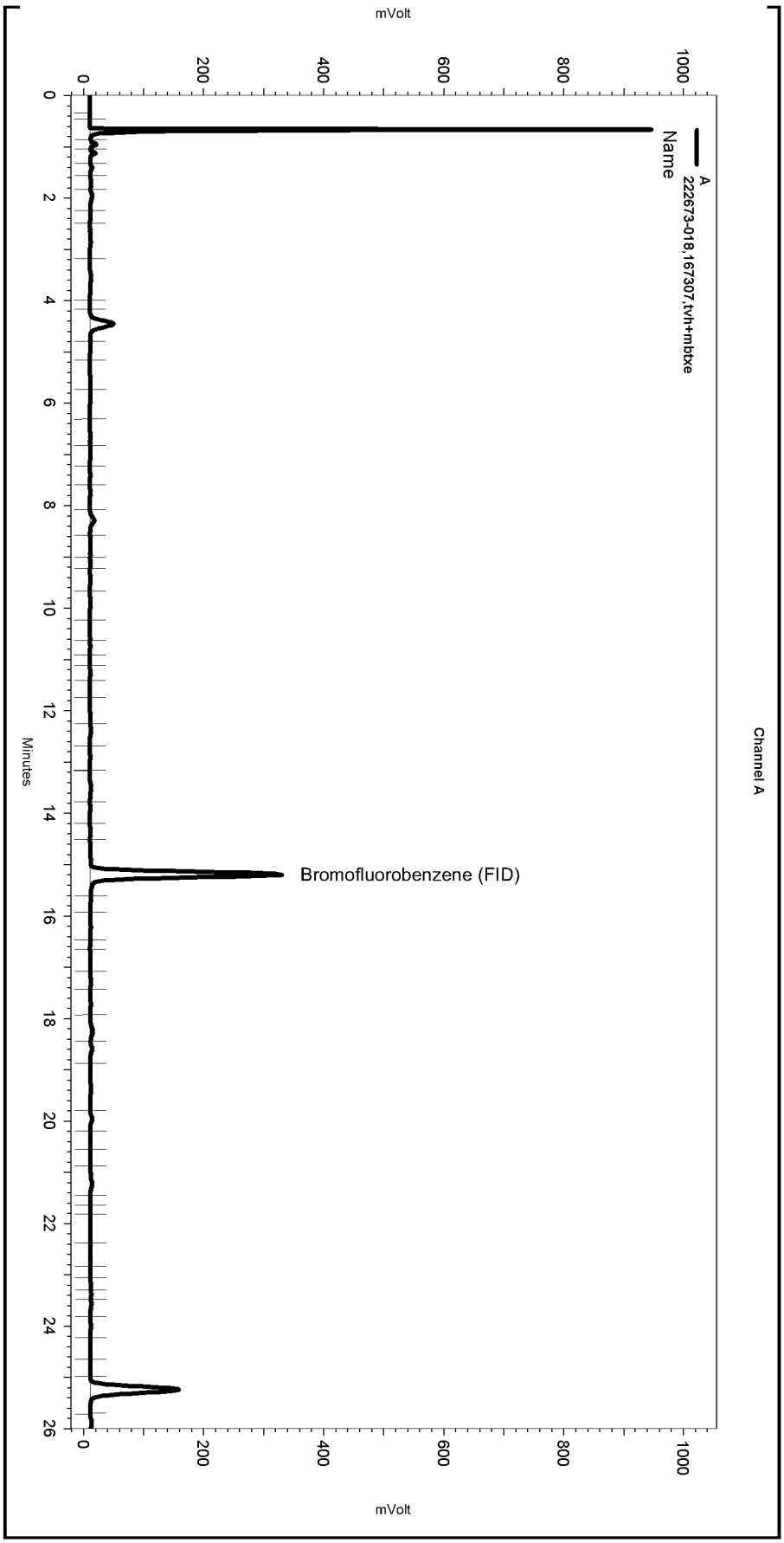
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\271-023

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.074	26.017	0
Yes	Split Peak	15.346	0	0
Yes	Split Peak	15.836	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\270.seq**
Sample Name: **222673-018,167307,tvh+mbtxe**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\270-022**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe265.met

Software Version 3.1.7
Run Date: 9/28/2010 5:06:43 AM
Analysis Date: 9/28/2010 4:40:42 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: a1.0



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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

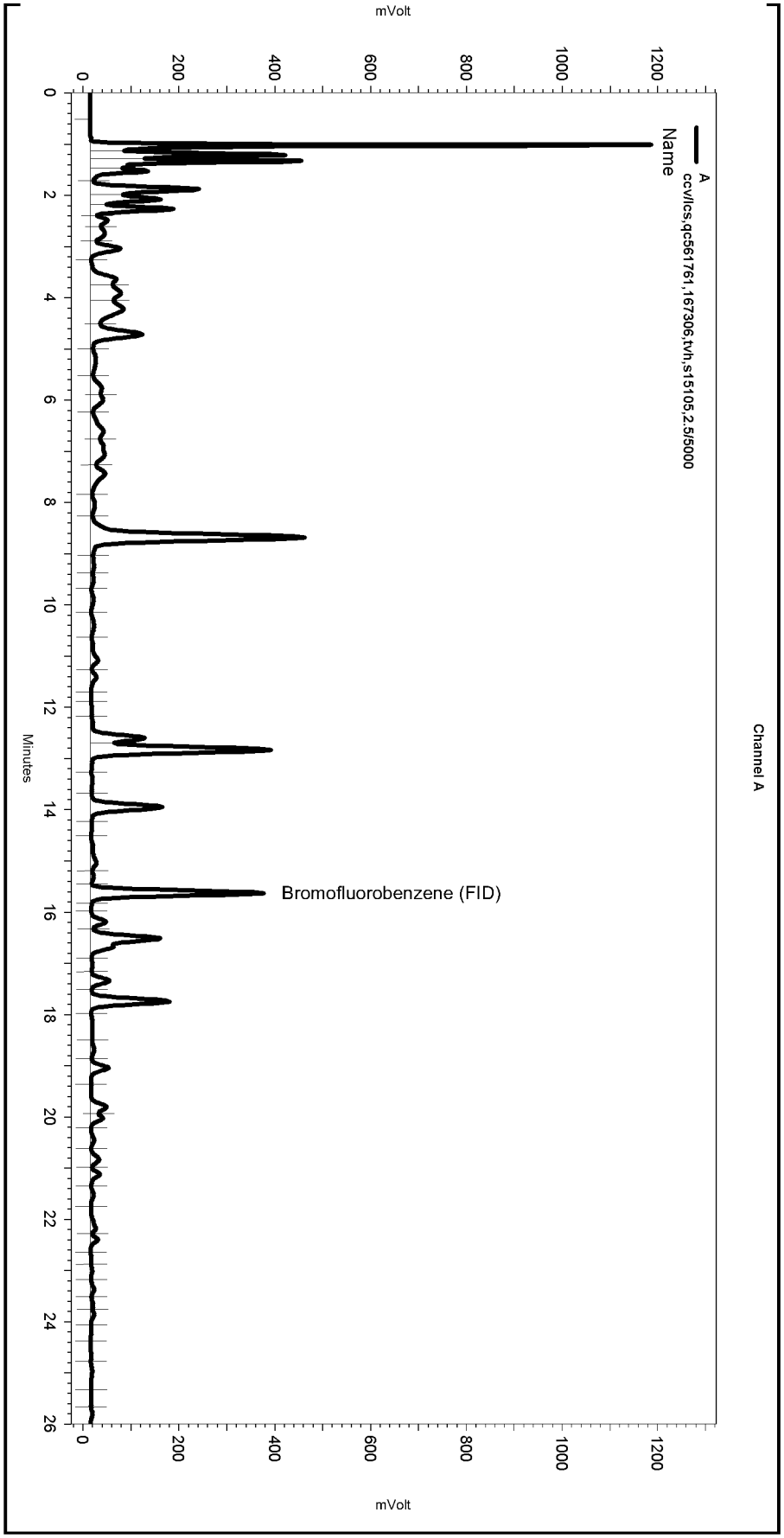
Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\270-022

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC05\Sequence\270.seq**
Sample Name: **ccv/lcs,qc561761,167306,tvh,s15105,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\270-003**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe267.met

Software Version 3.1.7
Run Date: 9/27/2010 11:30:10 AM
Analysis Date: 9/28/2010 4:58:03 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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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\270-003

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.128	26.017	0
Yes	Split Peak	15.829	0	0

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-11	Batch#:	167353
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-001	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/29/10

Analyte	Result	RL
Diesel C10-C24	5,500	50

Surrogate	%REC	Limits
o-Terphenyl	72	60-129

Field ID:	MW-9	Batch#:	167353
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-002	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/29/10

Analyte	Result	RL
Diesel C10-C24	6,400	50

Surrogate	%REC	Limits
o-Terphenyl	63	60-129

Field ID:	MW-4	Batch#:	167353
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-003	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/29/10

Analyte	Result	RL
Diesel C10-C24	770 Y	50

Surrogate	%REC	Limits
o-Terphenyl	88	60-129

Field ID:	MW-5	Batch#:	167353
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-004	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/29/10

Analyte	Result	RL
Diesel C10-C24	4,500	50

Surrogate	%REC	Limits
o-Terphenyl	69	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-7	Batch#:	167573
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-005	Prepared:	10/04/10
Diln Fac:	1.000	Analyzed:	10/05/10

Analyte	Result	RL
Diesel C10-C24	10,000	50

Surrogate	%REC	Limits
o-Terphenyl	96	60-129

Field ID:	MW-12	Batch#:	167353
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-006	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	3,100	50

Surrogate	%REC	Limits
o-Terphenyl	75	60-129

Field ID:	MW-17	Batch#:	167353
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-007	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	2,800	50

Surrogate	%REC	Limits
o-Terphenyl	77	60-129

Field ID:	MW-6	Batch#:	167353
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-008	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	1,200	50

Surrogate	%REC	Limits
o-Terphenyl	70	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-3	Batch#:	167353
Type:	SAMPLE	Sampled:	09/22/10
Lab ID:	222673-009	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	5,100	50

Surrogate	%REC	Limits
o-Terphenyl	76	60-129

Field ID:	MW-13	Batch#:	167353
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-010	Prepared:	09/28/10
Diln Fac:	200.0	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	3,100,000	40,000

Surrogate	%REC	Limits
o-Terphenyl	DO	60-129

Field ID:	MW-E	Batch#:	167353
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-011	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	6,600	50

Surrogate	%REC	Limits
o-Terphenyl	74	60-129

Field ID:	RW-1	Batch#:	167353
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-012	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	980	50

Surrogate	%REC	Limits
o-Terphenyl	81	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-10	Batch#:	167353
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-013	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	3,500	50

Surrogate	%REC	Limits
o-Terphenyl	78	60-129

Field ID:	MW-8	Batch#:	167353
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-014	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	7,600	50

Surrogate	%REC	Limits
o-Terphenyl	77	60-129

Field ID:	MW-15	Batch#:	167353
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-015	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	3,500	50

Surrogate	%REC	Limits
o-Terphenyl	86	60-129

Field ID:	MW-14	Batch#:	167353
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-016	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	2,500	50

Surrogate	%REC	Limits
o-Terphenyl	81	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Matrix:	Water	Received:	09/23/10
Units:	ug/L		

Field ID:	MW-18	Batch#:	167353
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-017	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	6,400	50

Surrogate	%REC	Limits
o-Terphenyl	65	60-129

Field ID:	MW-16	Batch#:	167353
Type:	SAMPLE	Sampled:	09/23/10
Lab ID:	222673-018	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/30/10

Analyte	Result	RL
Diesel C10-C24	9,800	50

Surrogate	%REC	Limits
o-Terphenyl	75	60-129

Type:	BLANK	Batch#:	167353
Lab ID:	QC561957	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/29/10

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	108	60-129

Type:	BLANK	Batch#:	167573
Lab ID:	QC562822	Prepared:	10/04/10
Diln Fac:	1.000	Analyzed:	10/05/10

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	99	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC561958	Batch#:	167353
Matrix:	Water	Prepared:	09/28/10
Units:	ug/L	Analyzed:	09/29/10

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,880	75	54-125

Surrogate	%REC	Limits
o-Terphenyl	90	60-129

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	167353
MSS Lab ID:	222562-002	Sampled:	09/21/10
Matrix:	Water	Received:	09/21/10
Units:	ug/L	Prepared:	09/28/10
Diln Fac:	1.000	Analyzed:	09/29/10

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC561959

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<12.24	2,500	1,781	71	46-131

Surrogate	%REC	Limits
o-Terphenyl	92	60-129

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC561960

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,848	74	46-131	4	61

Surrogate	%REC	Limits
o-Terphenyl	88	60-129

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC562823	Batch#:	167573
Matrix:	Water	Prepared:	10/04/10
Units:	ug/L	Analyzed:	10/05/10

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,374	95	54-125

Surrogate	%REC	Limits
o-Terphenyl	106	60-129

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	222673	Location:	Bay Center Apts
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	167573
MSS Lab ID:	222891-004	Sampled:	09/29/10
Matrix:	Water	Received:	10/02/10
Units:	ug/L	Prepared:	10/04/10
Diln Fac:	1.000	Analyzed:	10/06/10

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC562824

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<12.24	2,500	2,722	109	46-131

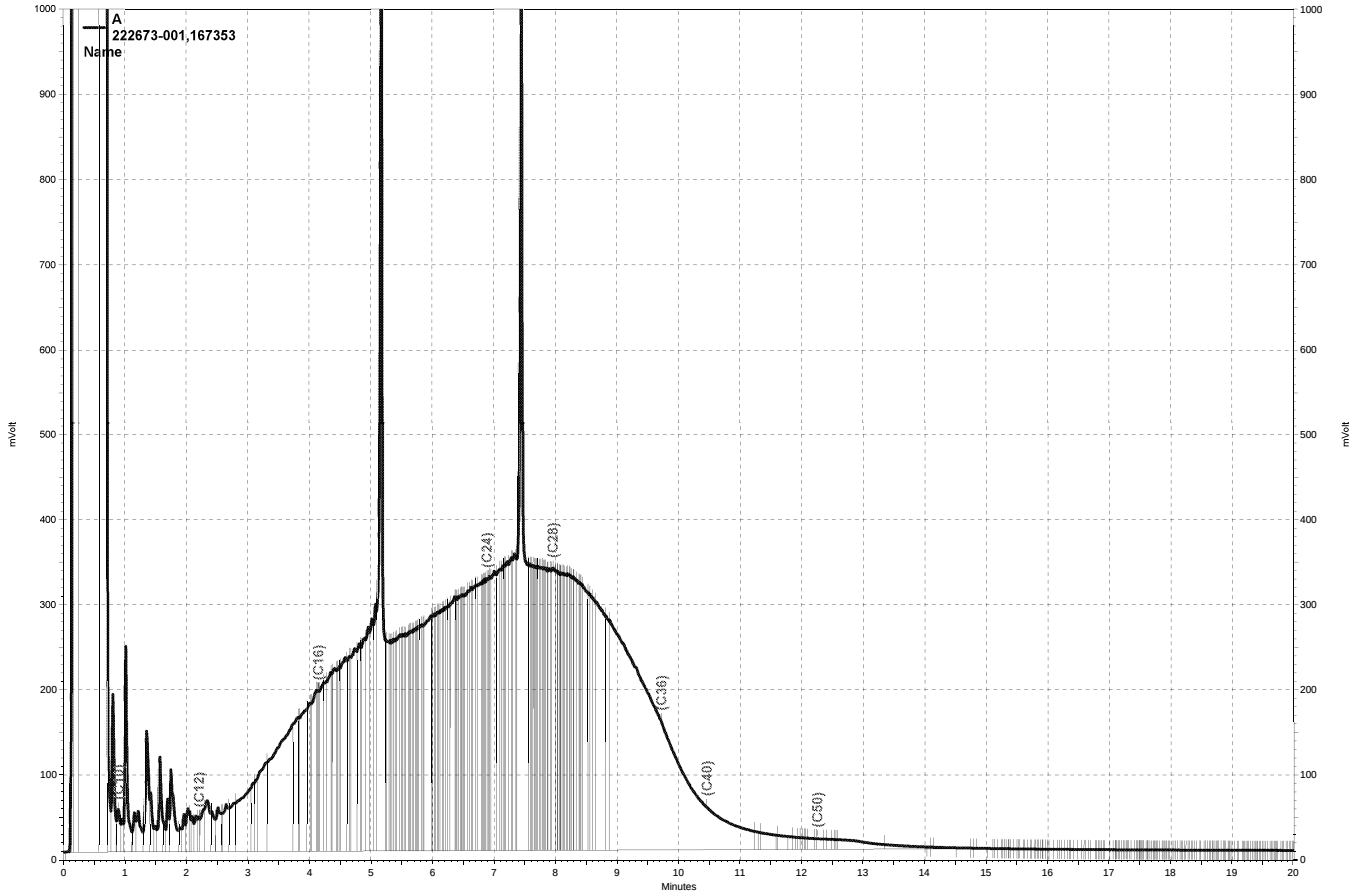
Surrogate	%REC	Limits
o-Terphenyl	93	60-129

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC562825

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,636	105	46-131	3	61

Surrogate	%REC	Limits
o-Terphenyl	90	60-129

RPD= Relative Percent Difference



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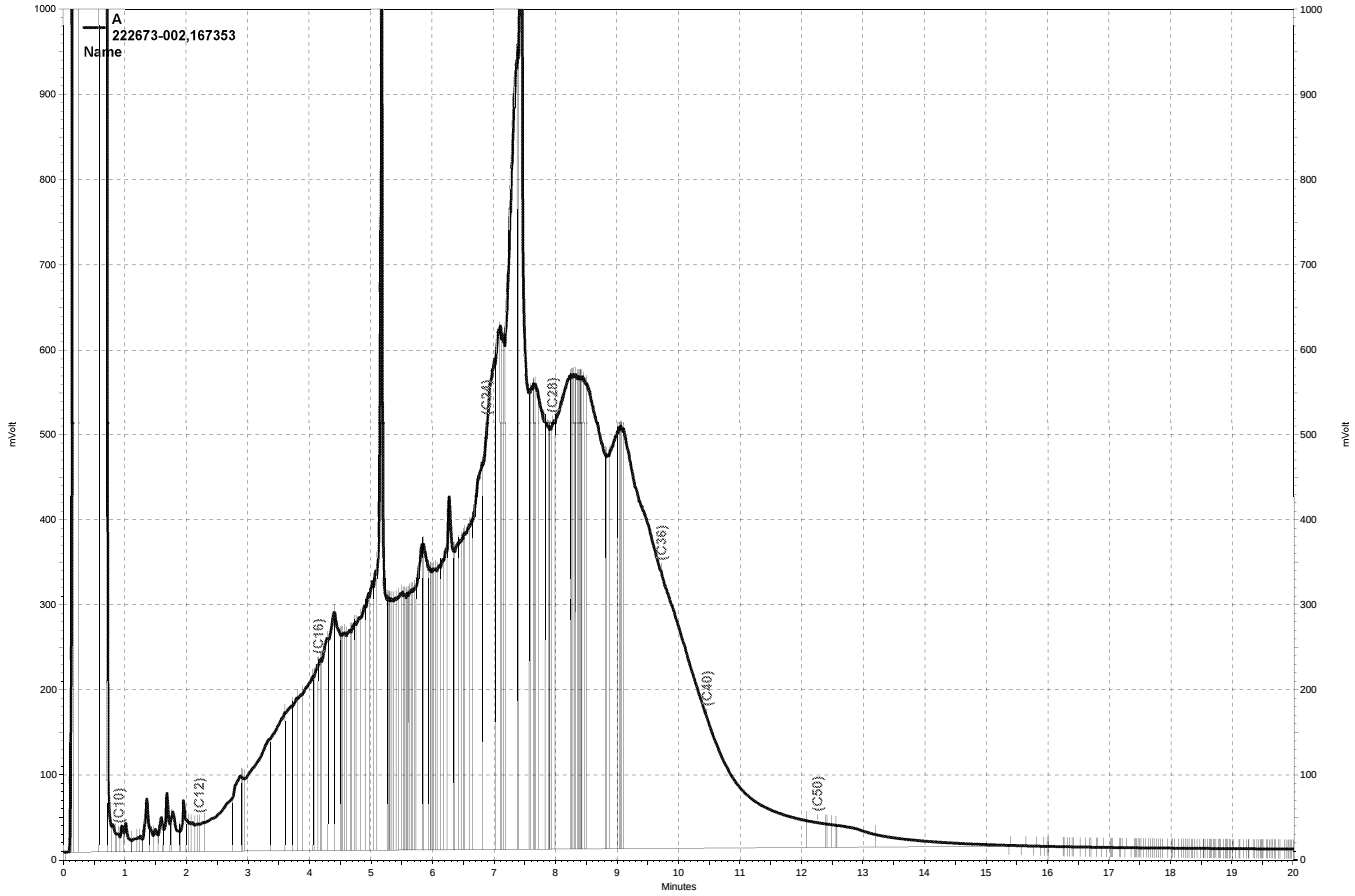

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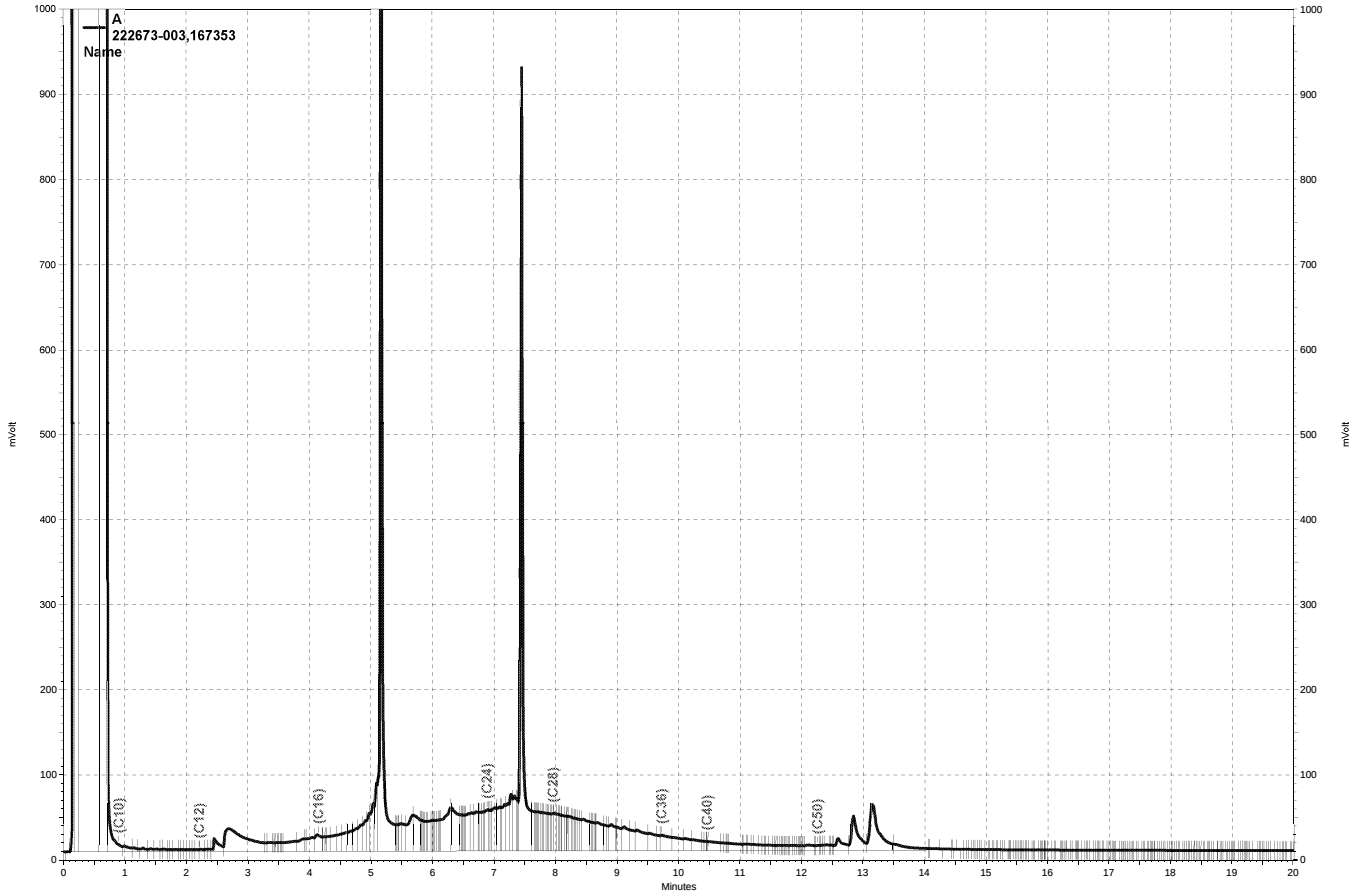

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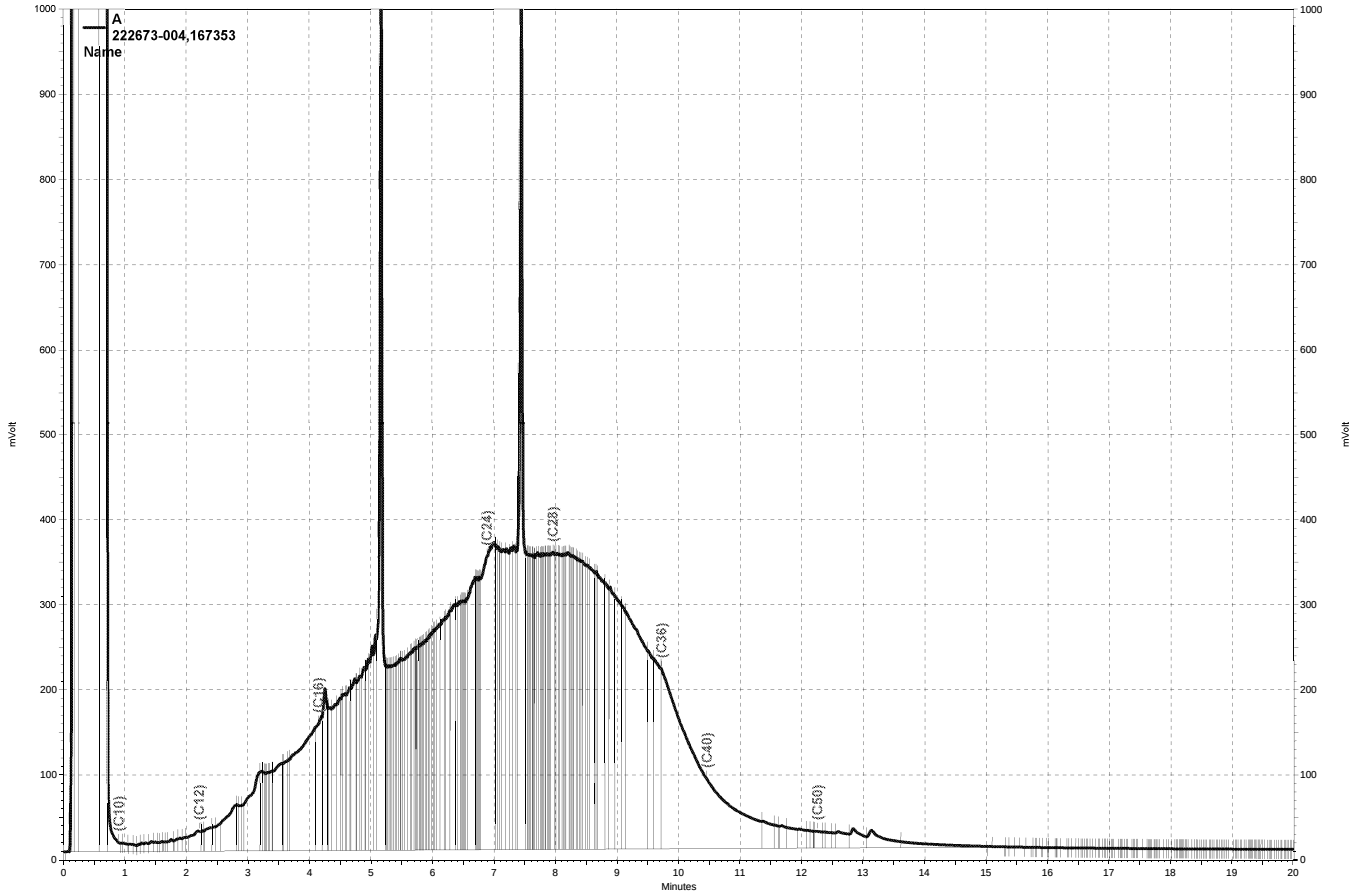

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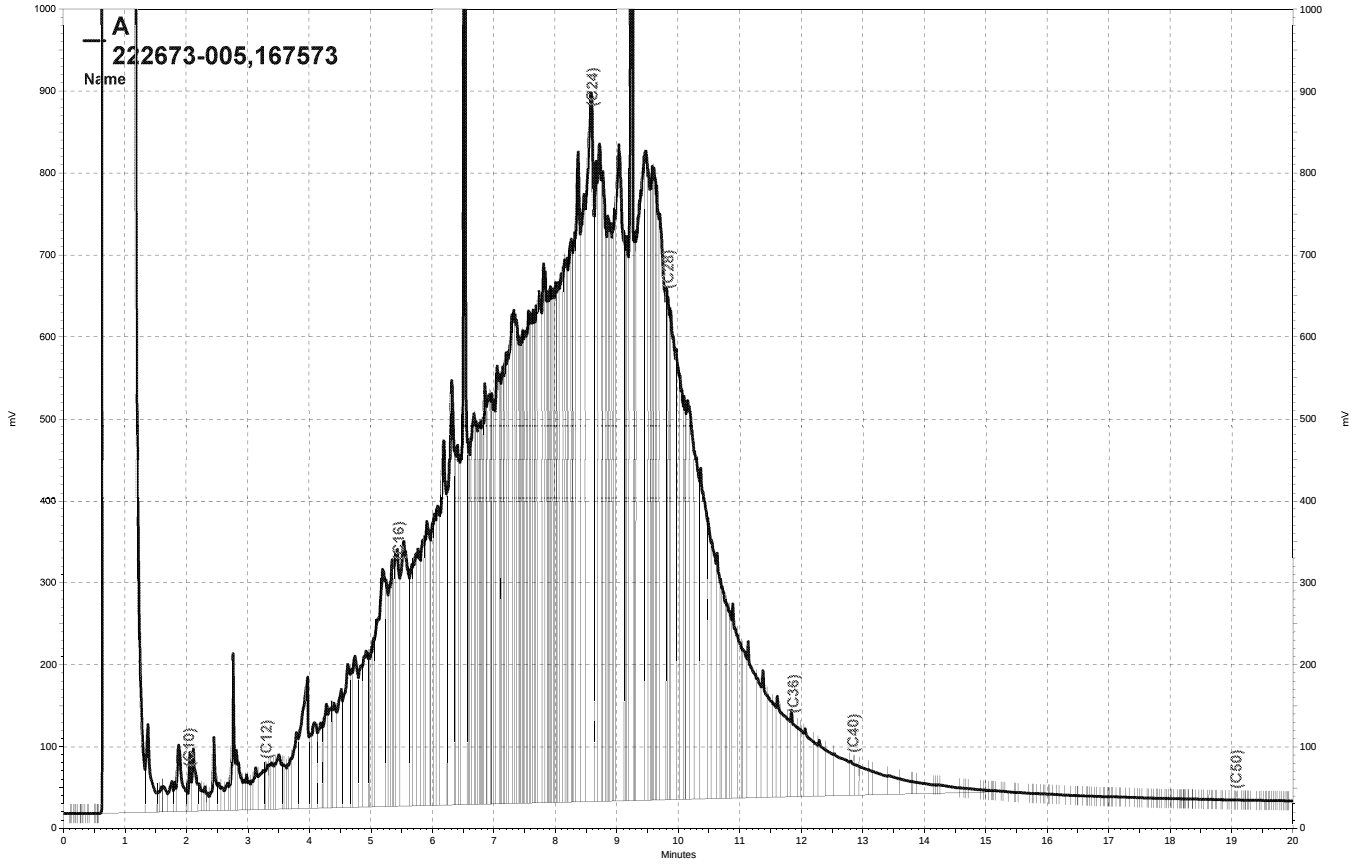

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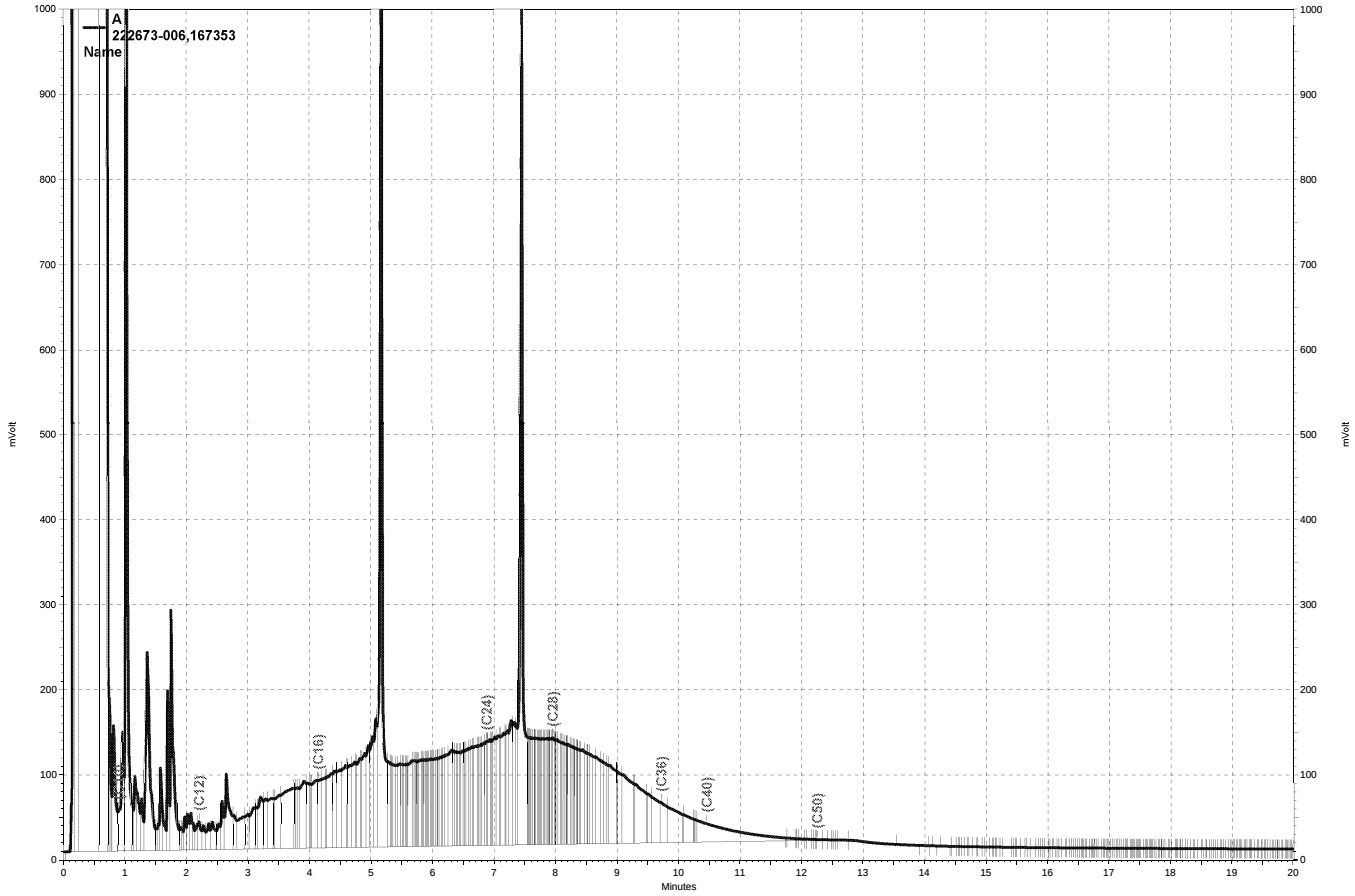

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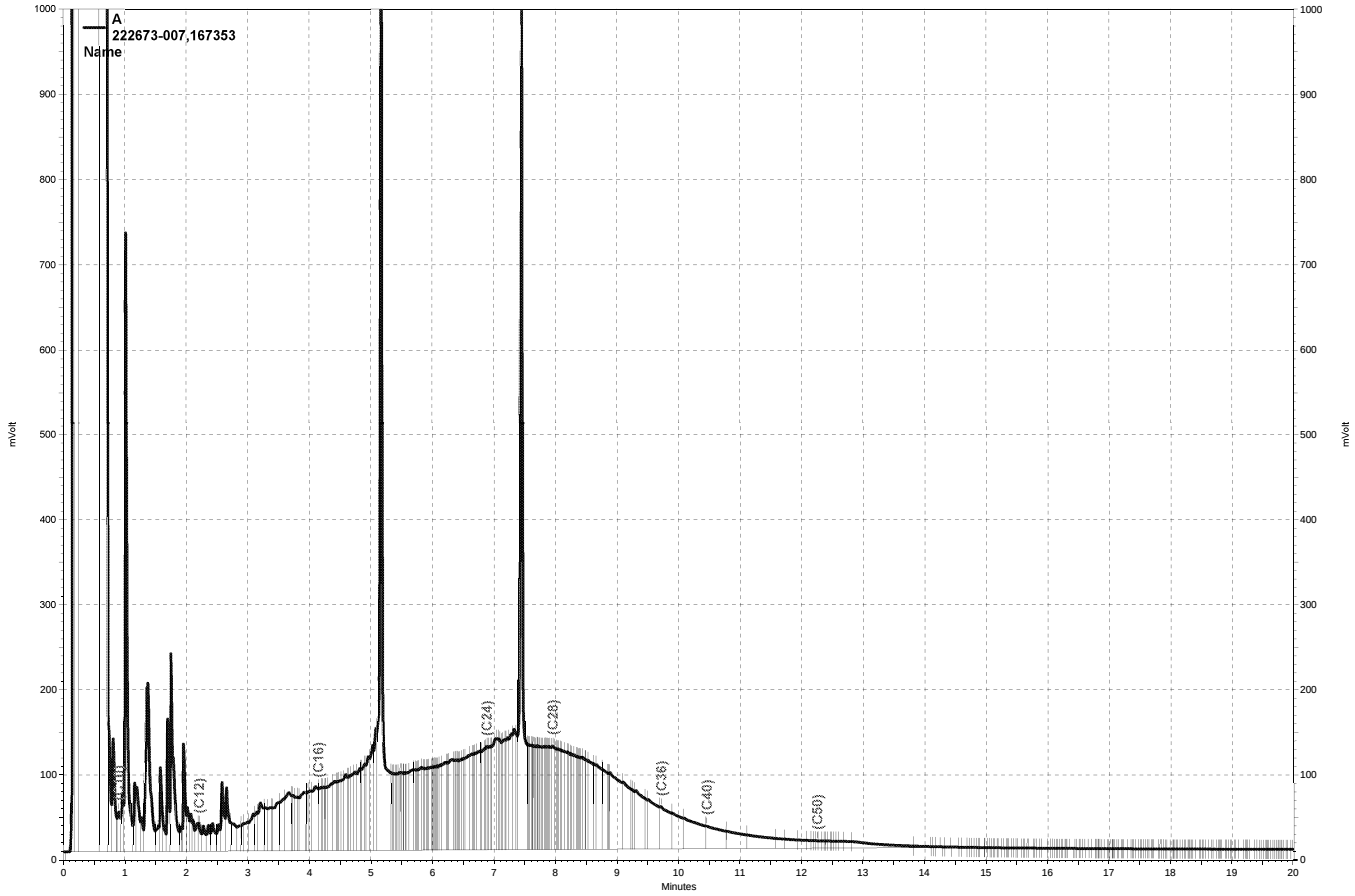

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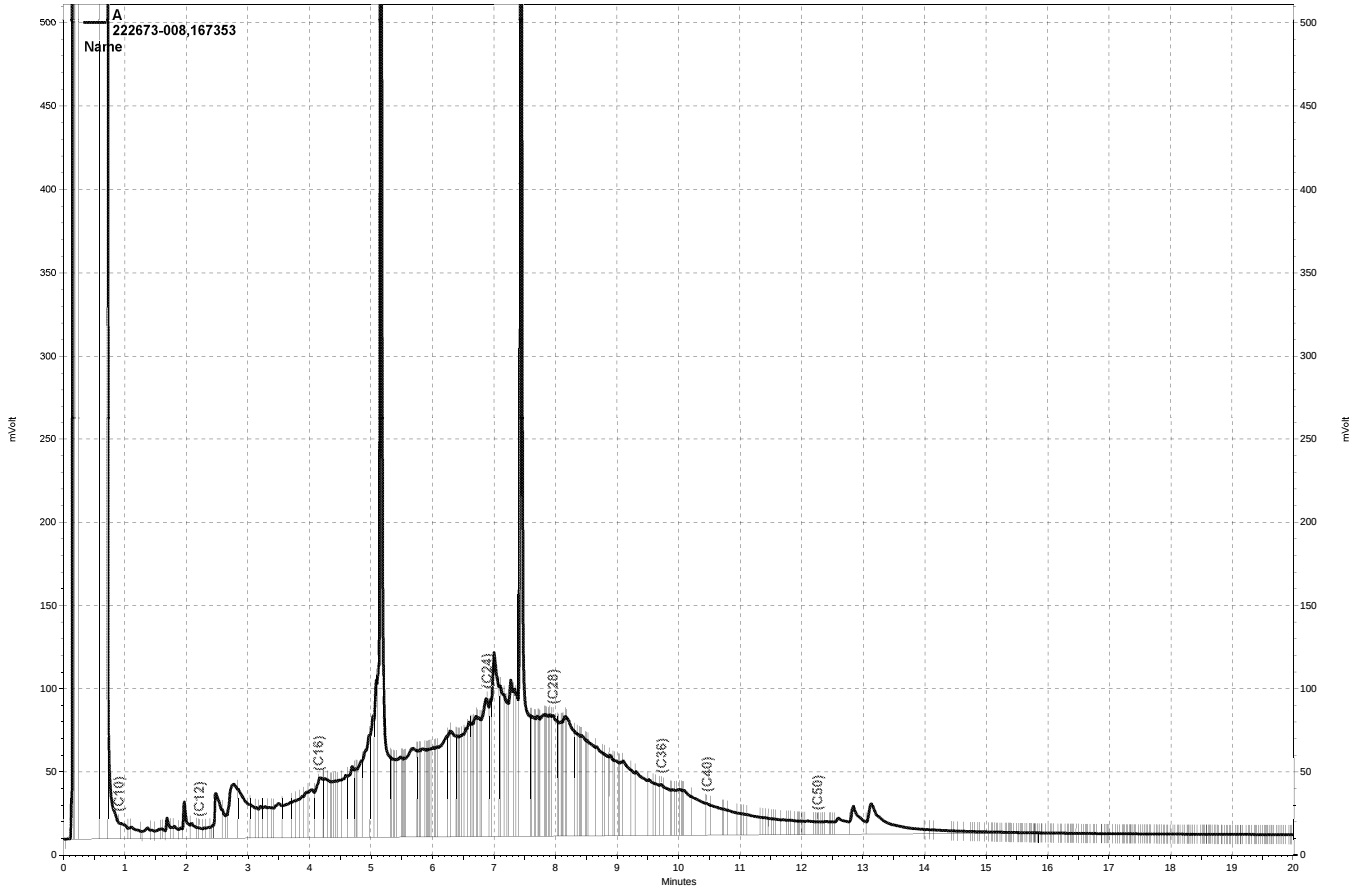

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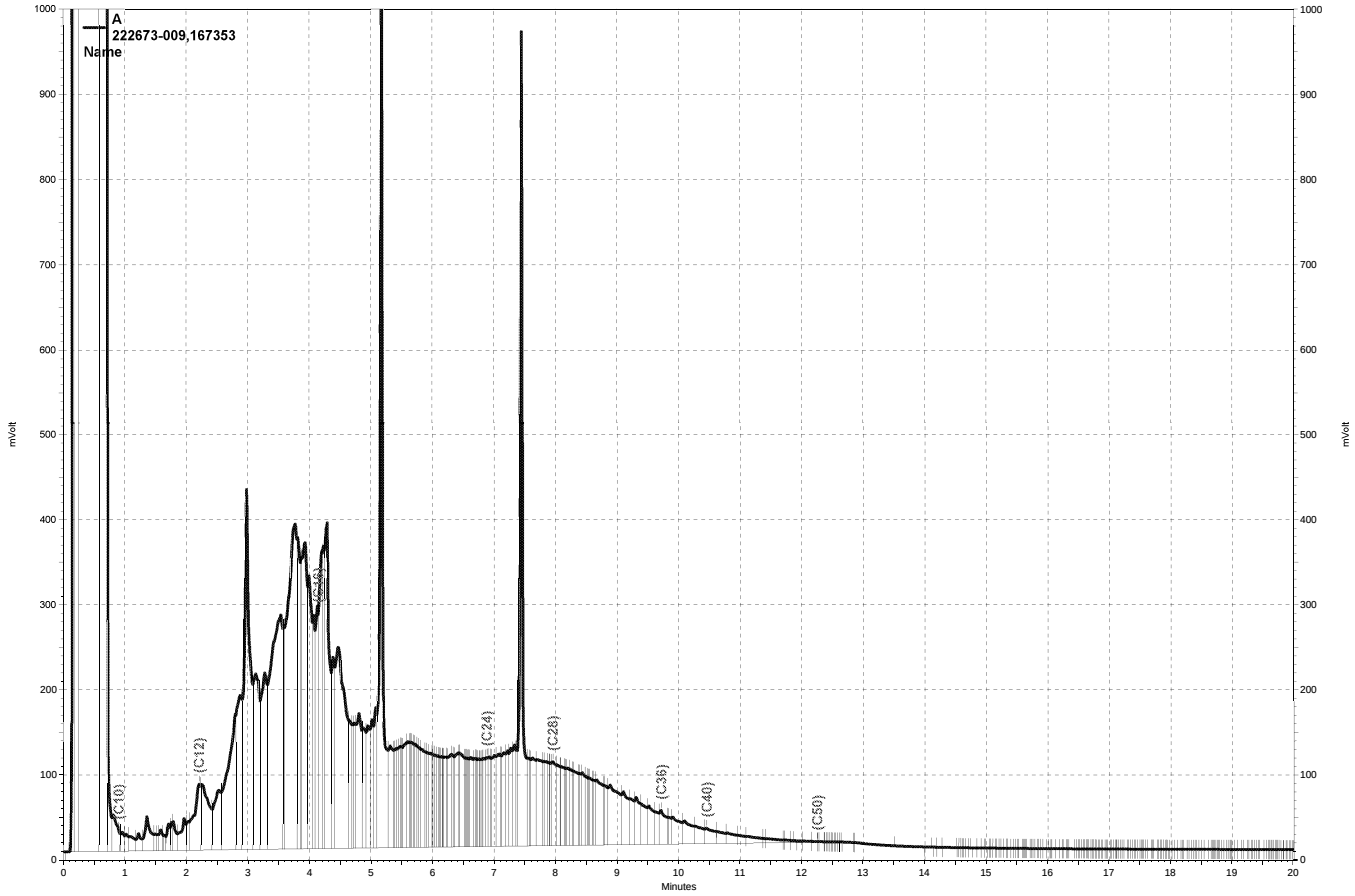

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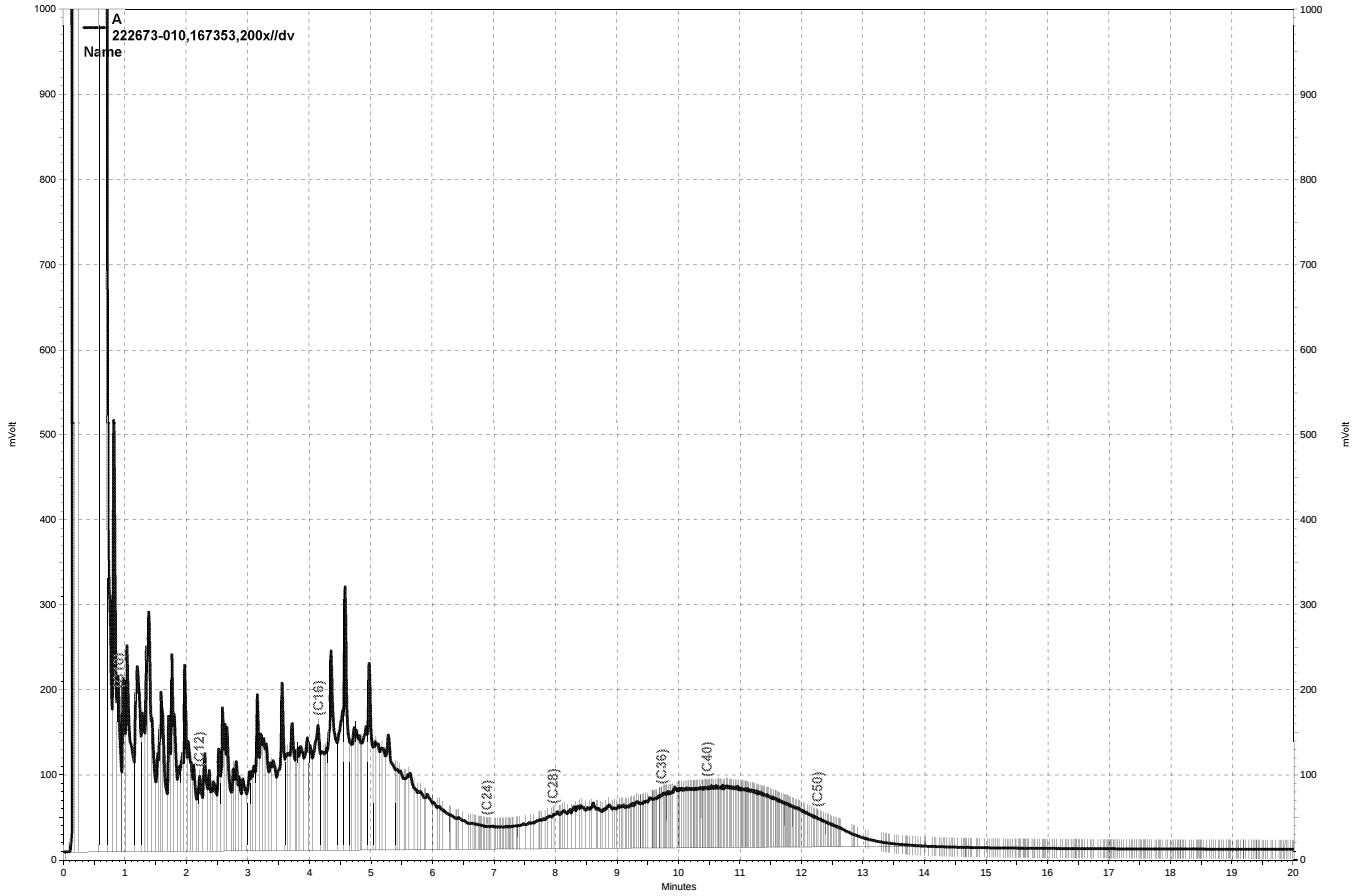

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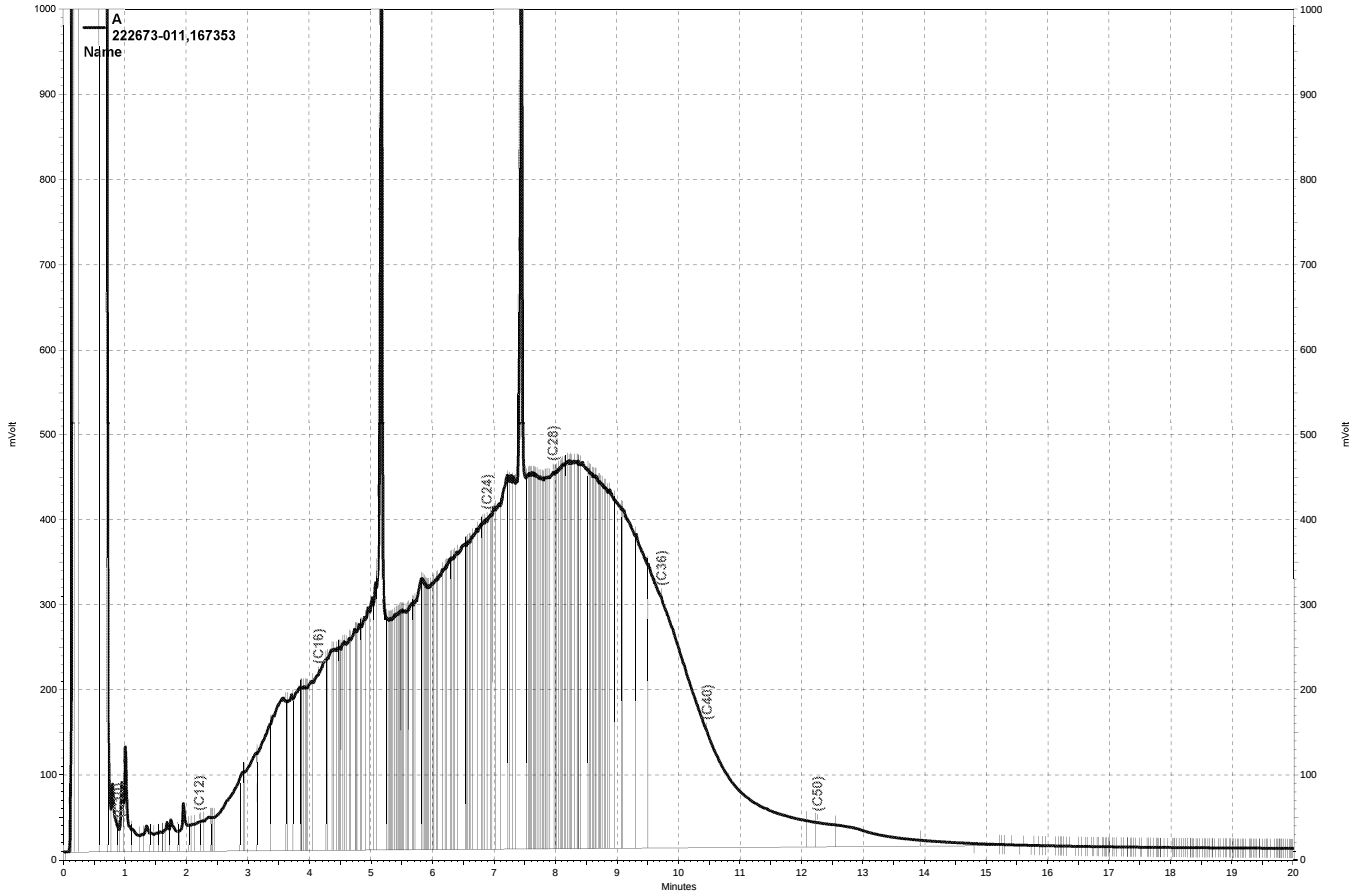

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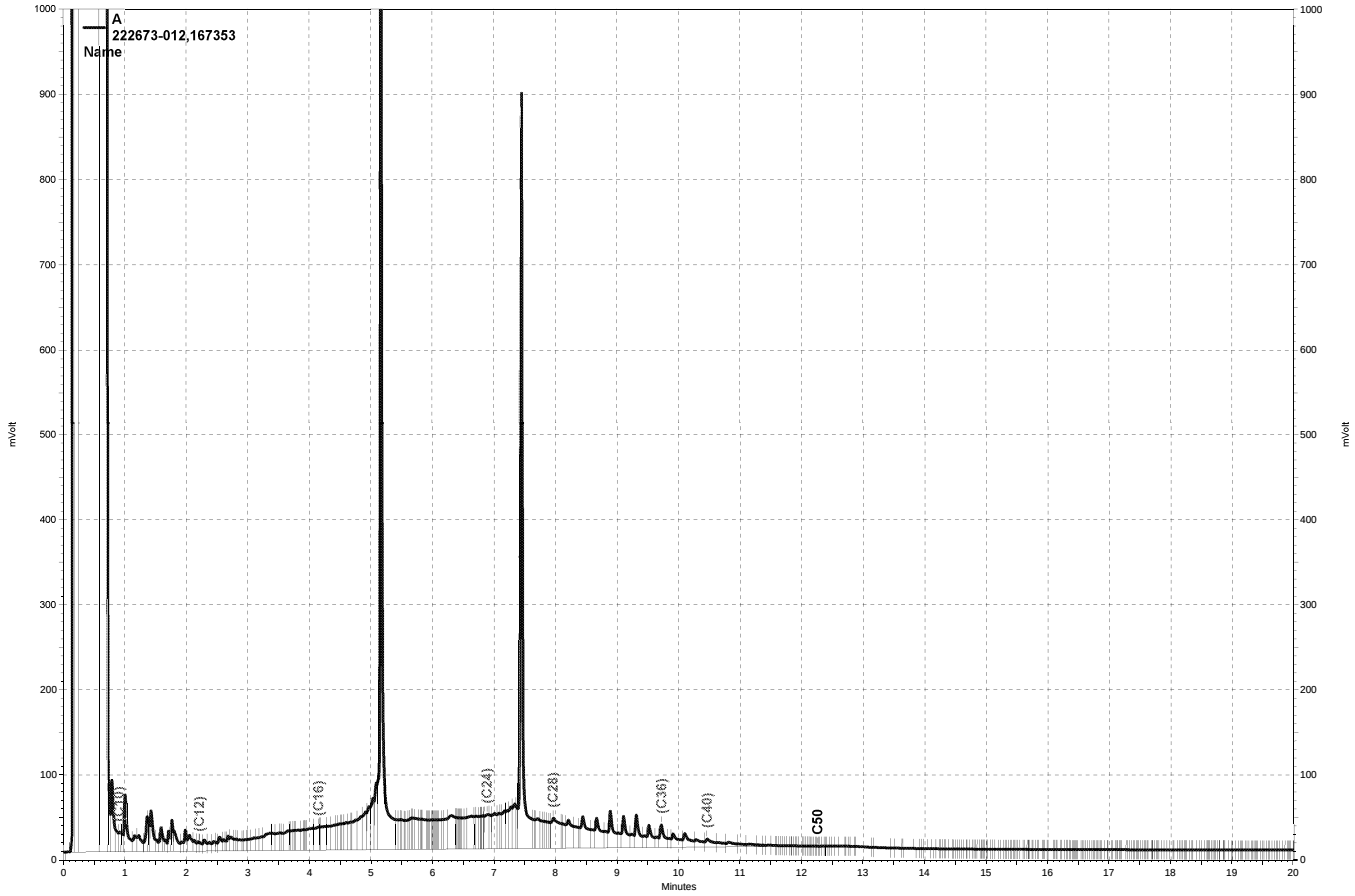

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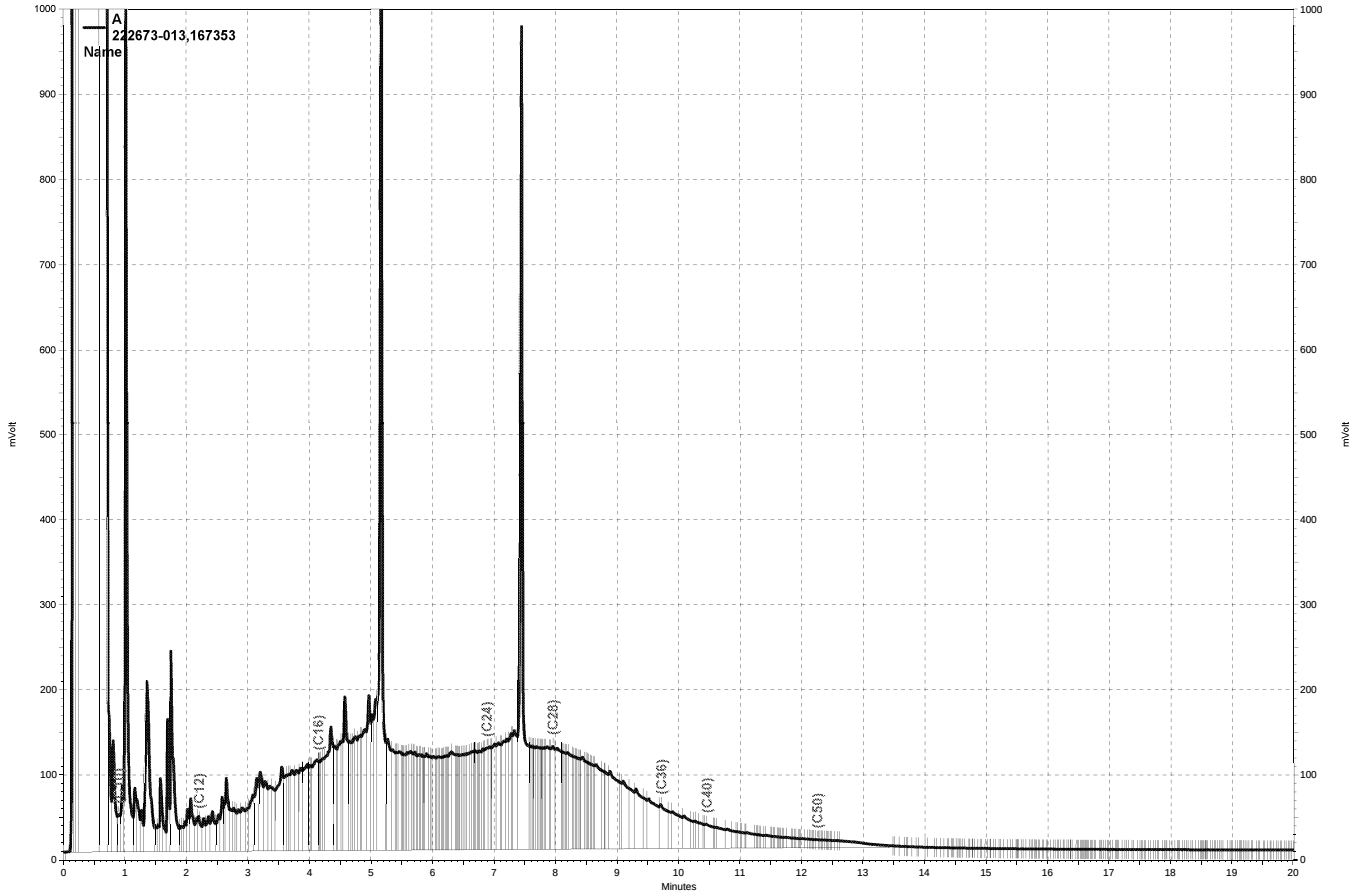

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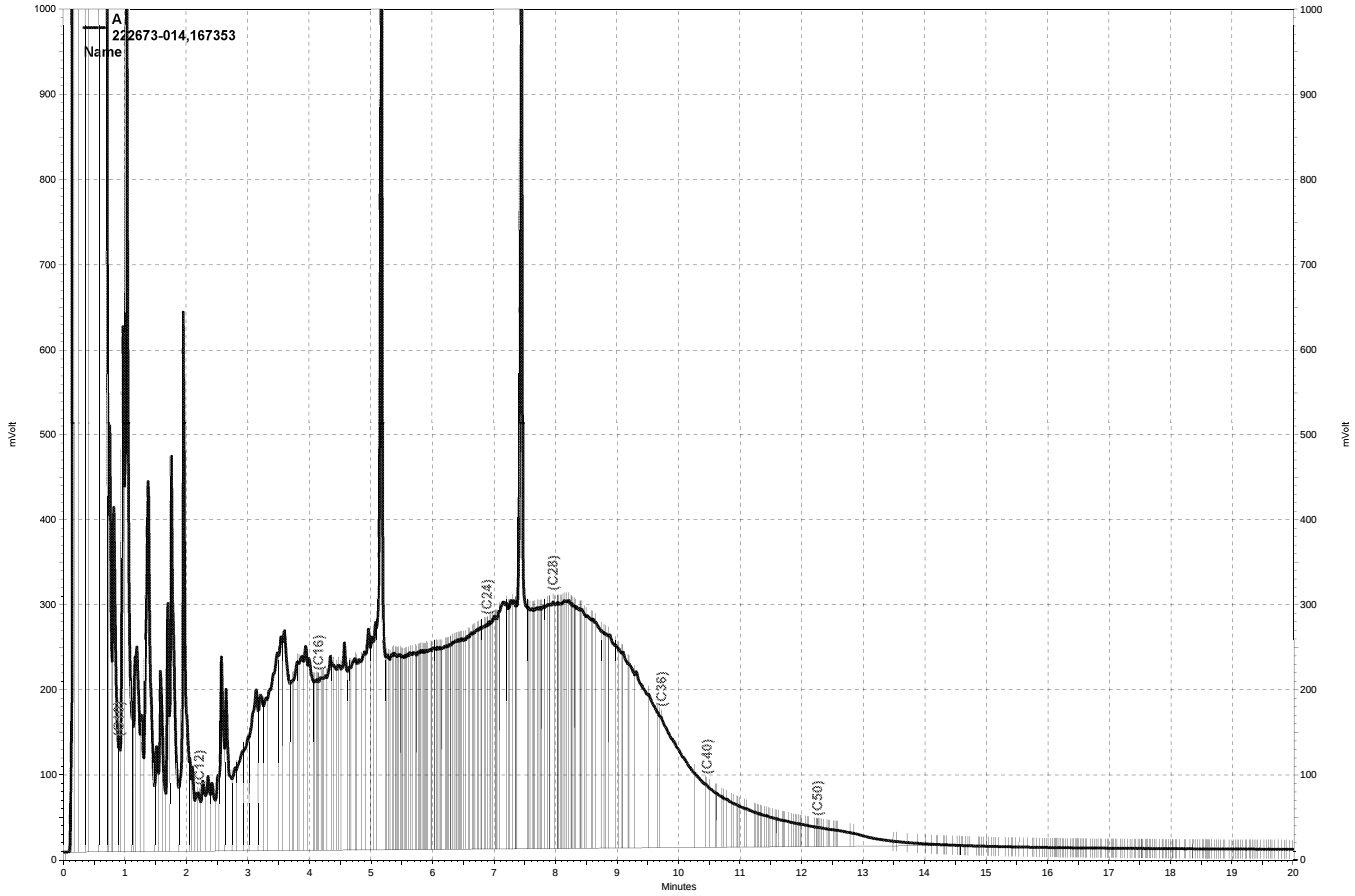

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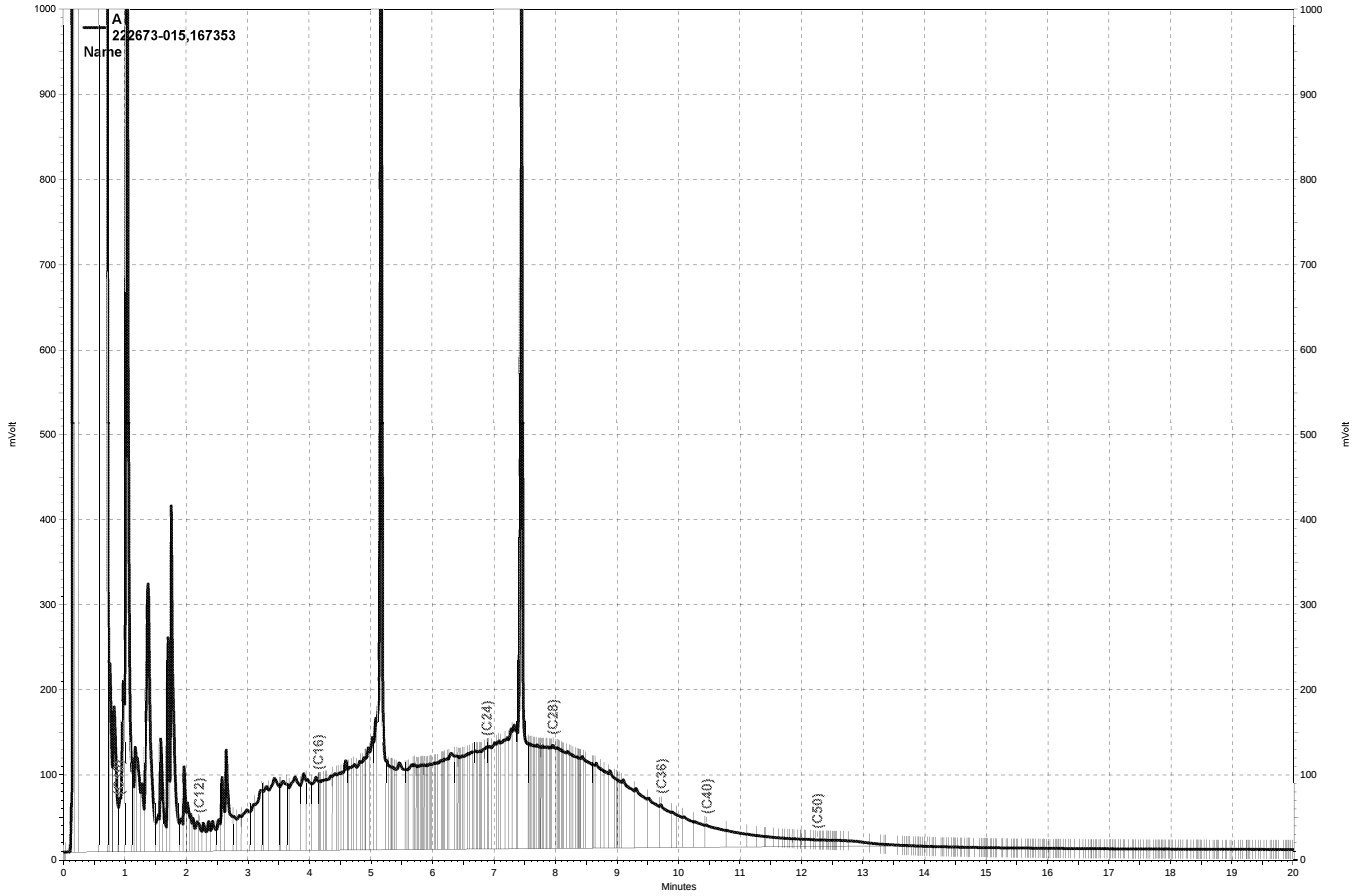

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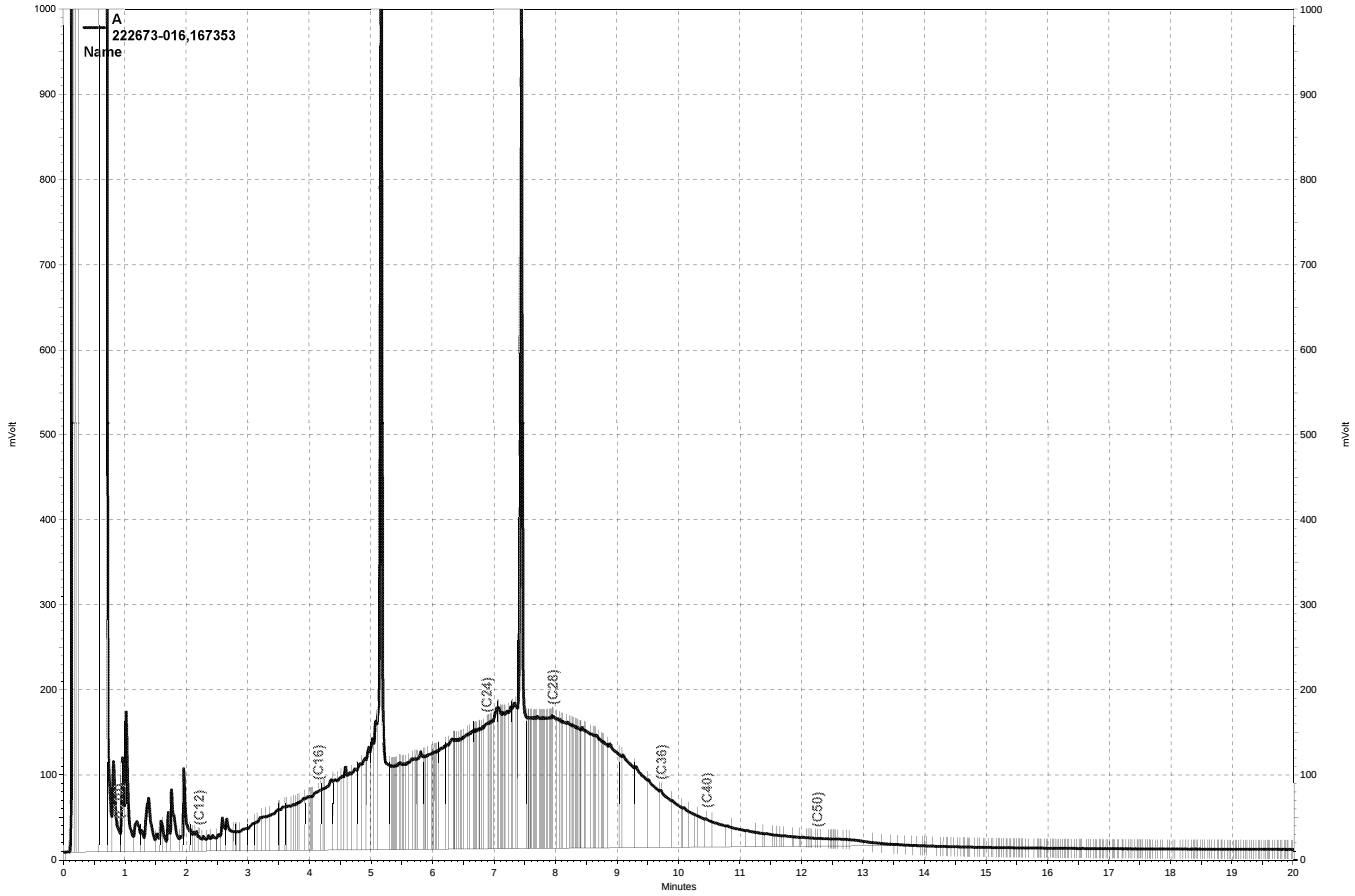

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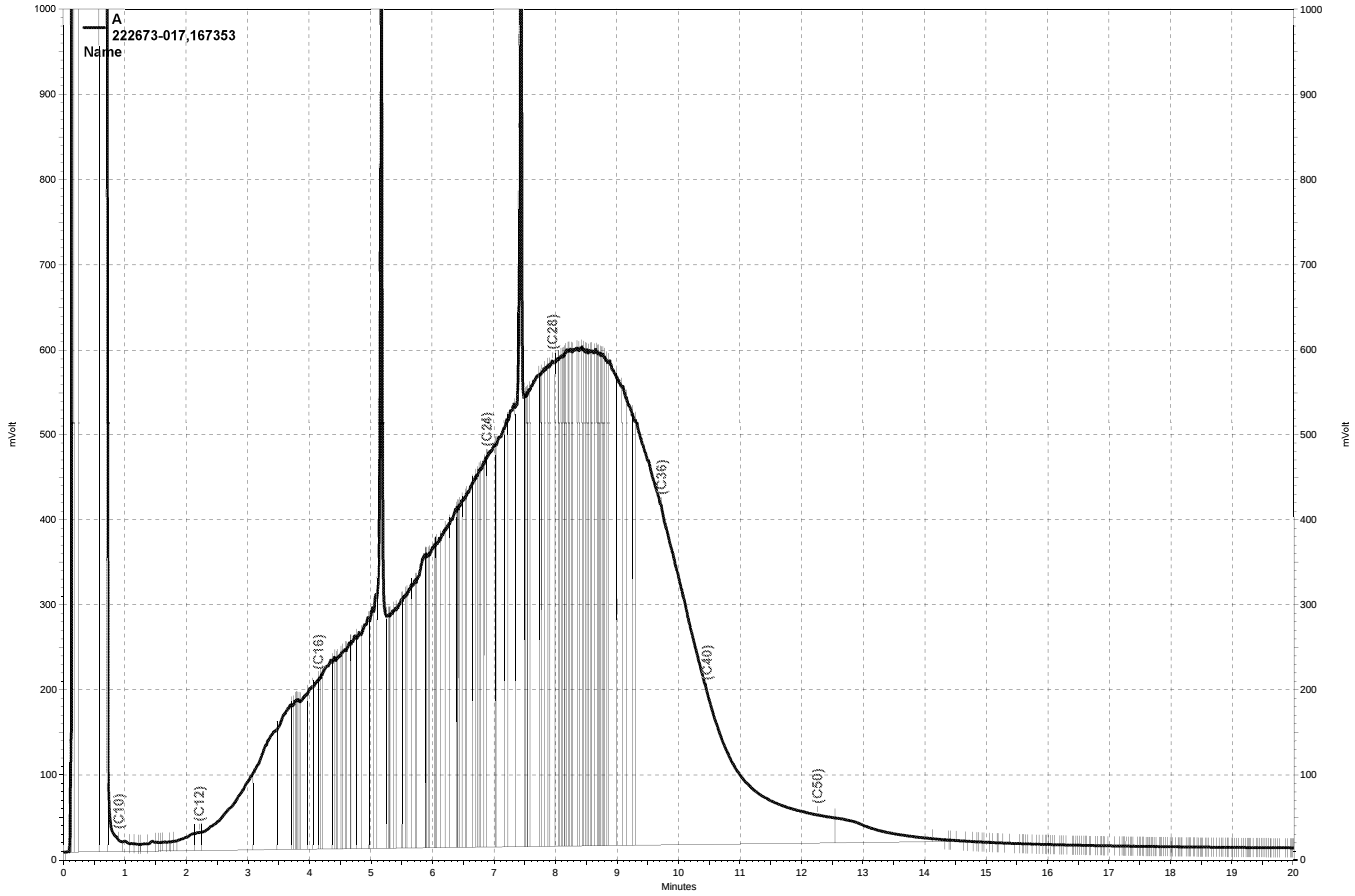

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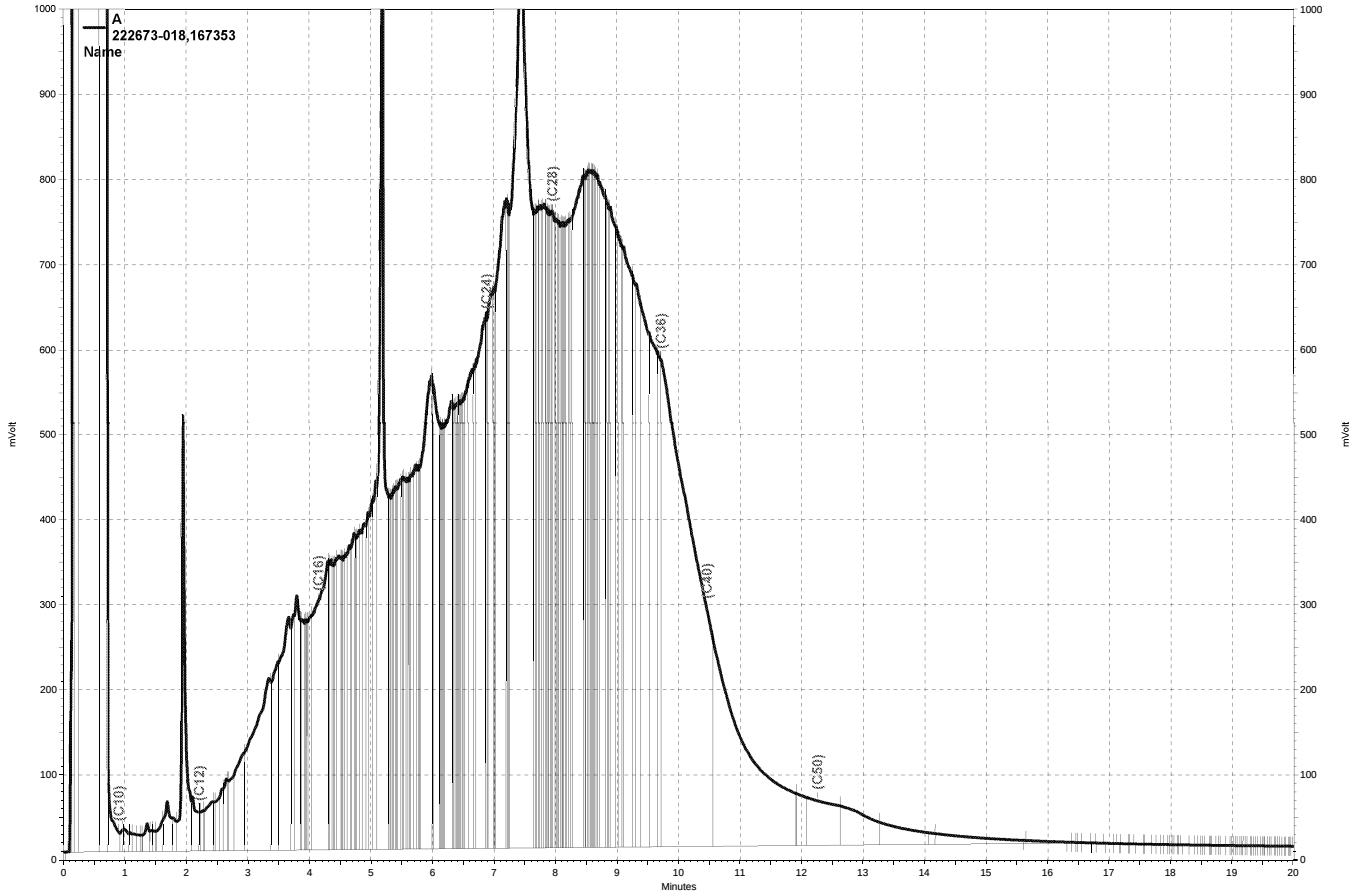

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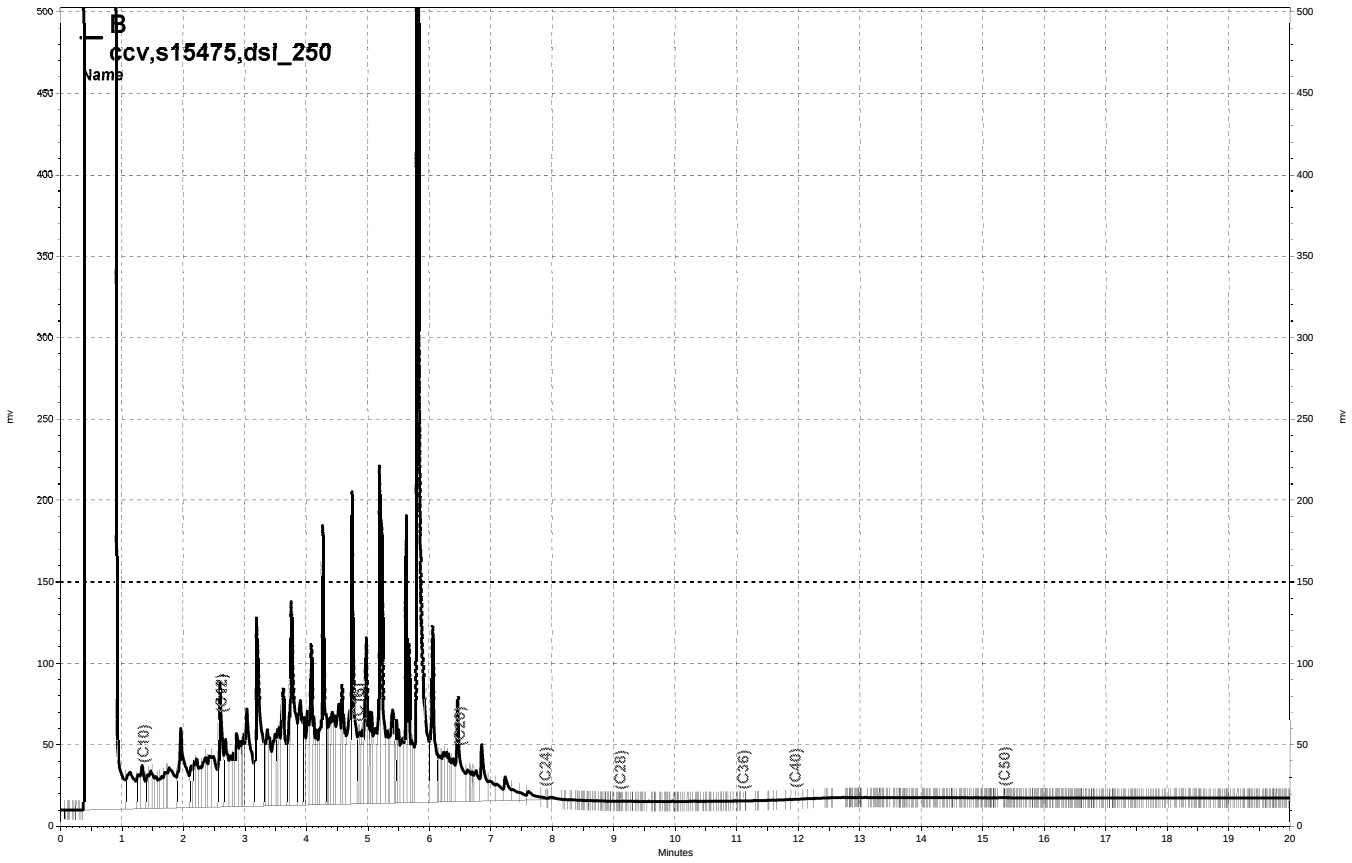

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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

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

Laboratory Job Number 222576
ANALYTICAL REPORT

Stellar Environmental Solutions	Project : 2007-65
2198 6th Street	Location : Emerybay Phase I Condos
Berkeley, CA 94710	Level : II

Sample ID	Lab ID
TANK	222576-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 09/28/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**222576**
Client:	**Stellar Environmental Solutions**
Project:	**2007-65**
Location:	**Emerybay Phase I Condos**
Request Date:	**09/22/10**
Samples Received:	**09/22/10**

This data package contains sample and QC results for one water sample, requested for the above referenced project on 09/22/10. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Chain of Custody Record

Lab job no. 222576

Date

Page 1 of 1

Laboratory Curtis and Tompkins, Ltd.
Address 2323 Fifth Street
Berkeley, California 94710
510-486-0900

Project Owner Bay Center Investor, LLC
Site Address 6400 Christie Avenue
Emeryville, California

Project Name Emerybay Phase I Condos
Project Number 2007-65

Method of Shipment Hand Delivery
Shipment No.
Airbill No.
Cooler No.
Project Manager Teal Glass
Telephone No. (510) 644-3123
Fax No. (510) 644-3859
Samplers: *(Signature)*

Field Sample Number	Location/ Depth	Date	Time	Sample Type	Type/Size of Container	Preservation: Cooler	Preservation: Chemical	Filtered	No. of Containers	Analysis Required: TVHg BTEX TEPH, MTBE, DIPE, ETBE, TAME	Remarks
Tank	AST	9-22-10	0825	W	500 mL amber, VOA	Y	(a)	N	5	X	

Relinquished by:	Date	Received by:	Date
Signature	9-22-10	Signature	9/22/10
Printed Teal Glass	Time	Printed Mike Dahlquist	Time
Company Stellar Environmental	0900	Company Curtis + Tompkins	0900

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

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

Turnaround Time:
Comments: (a) VOA w/ HCL

2000-00-01

★ Stellar Environmental Solutions

2198 Sixth Street #201, Berkeley, CA 94710

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 222576 Date Received 9-22-10 Number of coolers 1
Client SES Project EMERYBAY PHASE I CAMPUS

Date Opened 9-22-10 By (print) S. EVANS (sign)
Date Logged in / By (print) / (sign)

1. Did cooler come with a shipping slip (airbill, etc)_____ YES (NO)
Shipping info_____

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☒ NO
How many _____ Name_____ Date_____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received?_____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form)_____ (YES) NO
6. Indicate the packing in cooler: (if other, describe)_____

☒ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C)_____

☒ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present?_____ YES (NO)
If YES, what time were they transferred to freezer?_____
9. Did all bottles arrive unbroken/unopened?_____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
11. Are sample labels present, in good condition and complete? _____ (YES) NO
12. Do the sample labels agree with custody papers? _____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
14. Are the samples appropriately preserved? _____ (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
16. Was the client contacted concerning this sample delivery? _____ YES NO
If YES, Who was called?_____ By_____ Date:_____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222576	Location:	Emerybay Phase I Condos
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Field ID:	TANK	Batch#:	167236
Matrix:	Water	Sampled:	09/22/10
Units:	ug/L	Received:	09/22/10

Type: SAMPLE
Lab ID: 222576-001
Diln Fac: 5.000
Analyzed: 09/25/10

Analyte	Result	RL	Analysis
Gasoline C7-C12	10,000	250	EPA 8015B
MTBE	15 C	10	EPA 8021B
Benzene	1,400	2.5	EPA 8021B
Toluene	23	2.5	EPA 8021B
Ethylbenzene	6.7	2.5	EPA 8021B
m,p-Xylenes	180	2.5	EPA 8021B
o-Xylene	48	2.5	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	113	70-140	EPA 8015B
Bromofluorobenzene (PID)	93	54-134	EPA 8021B

Type: BLANK
Lab ID: QC561484
Diln Fac: 1.000
Analyzed: 09/24/10

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	107	70-140	EPA 8015B
Bromofluorobenzene (PID)	89	54-134	EPA 8021B

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222576	Location:	Emerybay Phase I Condos
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Matrix:	Water	Batch#:	167236
Units:	ug/L	Analyzed:	09/24/10
Diln Fac:	1.000		

Type: BS Lab ID: QC561479

Analyte	Spiked	Result	%REC	Limits	Analysis
MTBE	10.00	8.708	87	57-150	EPA 8021B
Benzene	10.00	8.879	89	70-122	EPA 8021B
Toluene	10.00	9.262	93	72-125	EPA 8021B
Ethylbenzene	10.00	9.517	95	72-126	EPA 8021B
m,p-Xylenes	10.00	9.892	99	73-126	EPA 8021B
o-Xylene	10.00	9.778	98	71-127	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	103	70-140	EPA 8015B
Bromofluorobenzene (PID)	87	54-134	EPA 8021B

Type: BSD Lab ID: QC561480

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
MTBE	10.00	9.254	93	57-150	6	46	EPA 8021B
Benzene	10.00	8.963	90	70-122	1	33	EPA 8021B
Toluene	10.00	9.121	91	72-125	2	25	EPA 8021B
Ethylbenzene	10.00	9.227	92	72-126	3	26	EPA 8021B
m,p-Xylenes	10.00	9.442	94	73-126	5	25	EPA 8021B
o-Xylene	10.00	9.509	95	71-127	3	25	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	102	70-140	EPA 8015B
Bromofluorobenzene (PID)	89	54-134	EPA 8021B

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222576	Location:	Emerybay Phase I Condos
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC561481	Batch#:	167236
Matrix:	Water	Analyzed:	09/24/10
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1,000	988.7	99	73-127	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	101	70-140	EPA 8015B
Bromofluorobenzene (PID)	87	54-134	EPA 8021B

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	222576	Location:	Emerybay Phase I Condos
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2007-65		
Field ID:	ZZZZZZZZZZ	Batch#:	167236
MSS Lab ID:	222656-008	Sampled:	09/22/10
Matrix:	Water	Received:	09/23/10
Units:	ug/L	Analyzed:	09/25/10
Diln Fac:	1.000		

Type: MS Lab ID: QC561482

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	11.65	2,000	1,922	96	68-120	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	107	70-140	EPA 8015B
Bromofluorobenzene (PID)	93	54-134	EPA 8021B

Type: MSD Lab ID: QC561483

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12	2,000	1,911	95	68-120	1	20	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	111	70-140	EPA 8015B
Bromofluorobenzene (PID)	96	54-134	EPA 8021B

RPD= Relative Percent Difference

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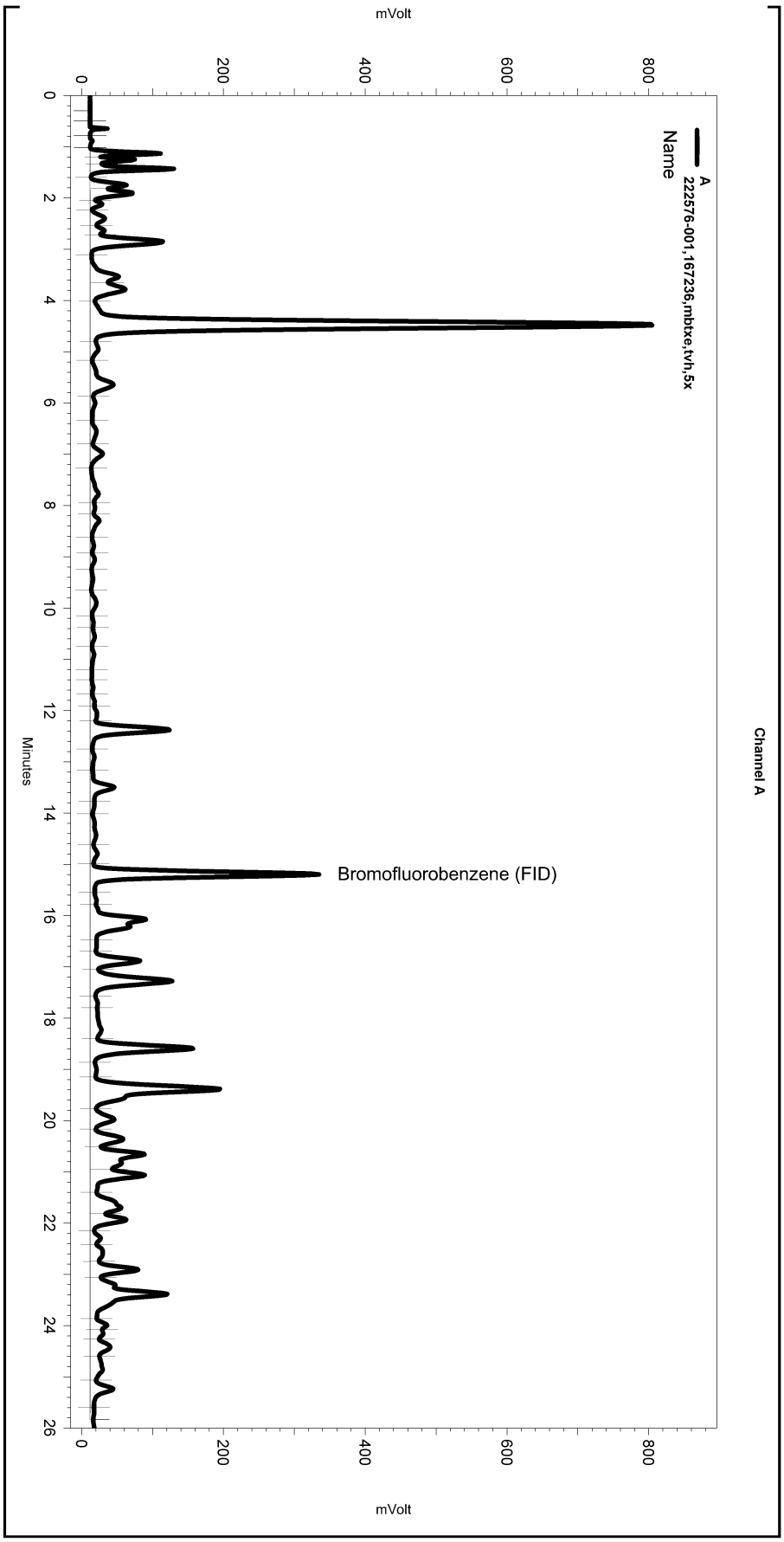
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\267-021**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe265.met

Software Version 3.1.7
Run Date: 9/25/2010 5:06:40 AM
Analysis Date: 9/26/2010 11:07:22 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b1.0



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Integration Events

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Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\267-021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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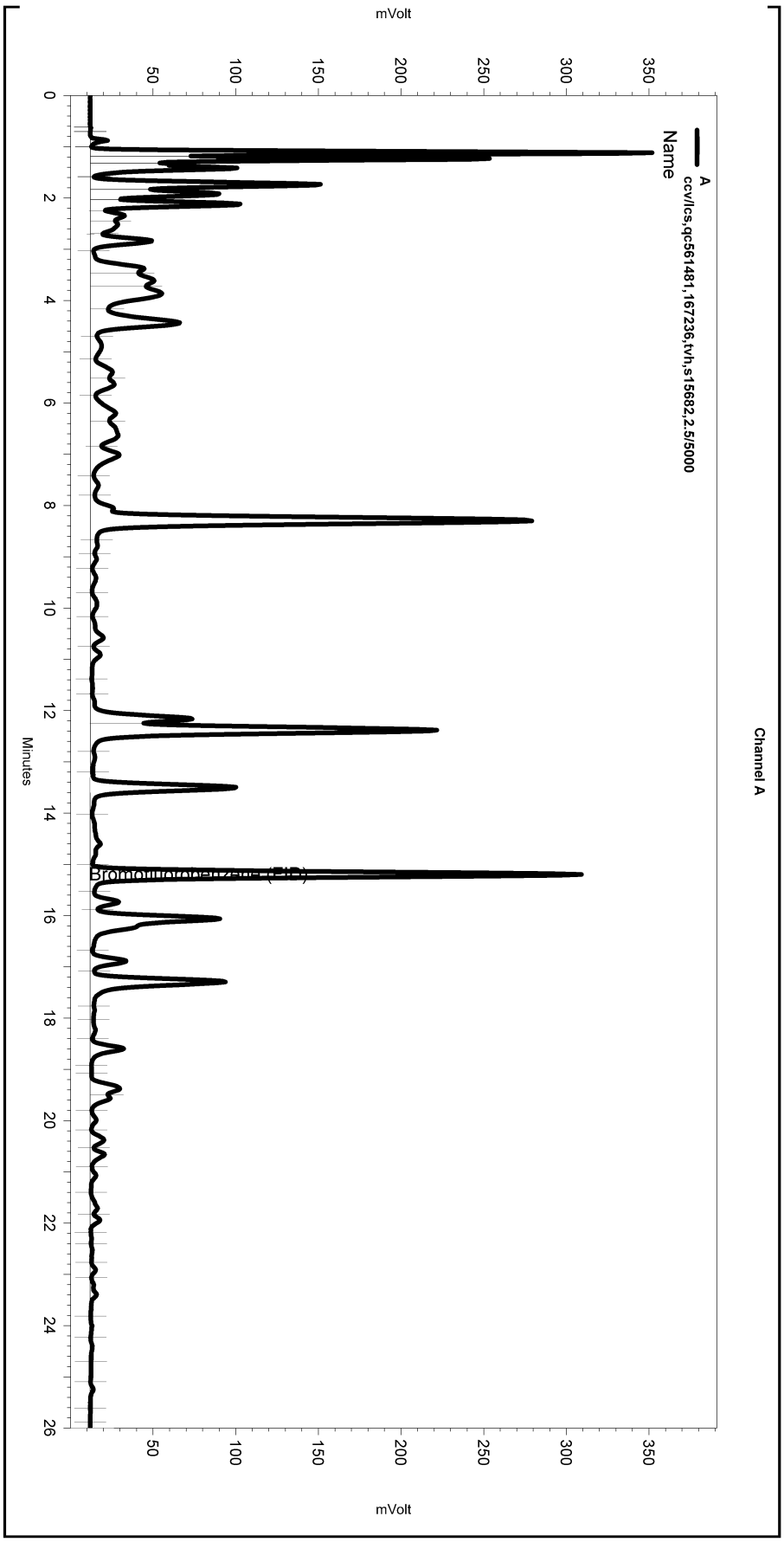
Sample Name: **ccv/lcs,qc561481,167236,tvh,s15682,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\267-002**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe265.met

Software Version 3.1.7
Run Date: 9/24/2010 1:28:22 PM
Analysis Date: 9/26/2010 10:40:43 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\GC07\Data\267-002

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	222576	Location:	Emerybay Phase I Condos
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Field ID:	TANK	Sampled:	09/22/10
Matrix:	Water	Received:	09/22/10
Units:	ug/L	Prepared:	09/22/10
Diln Fac:	1.000	Analyzed:	09/24/10
Batch#:	167150		

Type: SAMPLE Lab ID: 222576-001

Analyte	Result	RL
Diesel C10-C24	14,000	50
Motor Oil C24-C36	2,800	300

Surrogate	%REC	Limits
o-Terphenyl	98	60-129

Type: BLANK Lab ID: QC561120

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	119	60-129

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	222576	Location:	Emerybay Phase I Condos
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC561121	Batch#:	167150
Matrix:	Water	Prepared:	09/22/10
Units:	ug/L	Analyzed:	09/24/10

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,720	109	54-125

Surrogate	%REC	Limits
o-Terphenyl	107	60-129

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	222576	Location:	Emerybay Phase I Condos
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2007-65	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	167150
MSS Lab ID:	222484-002	Sampled:	09/16/10
Matrix:	Water	Received:	09/17/10
Units:	ug/L	Prepared:	09/22/10
Diln Fac:	1.000	Analyzed:	09/24/10

Type: MS
Lab ID: QC561122

Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	166.1	2,500	2,520	94	46-131

Surrogate	%REC	Limits
o-Terphenyl	95	60-129

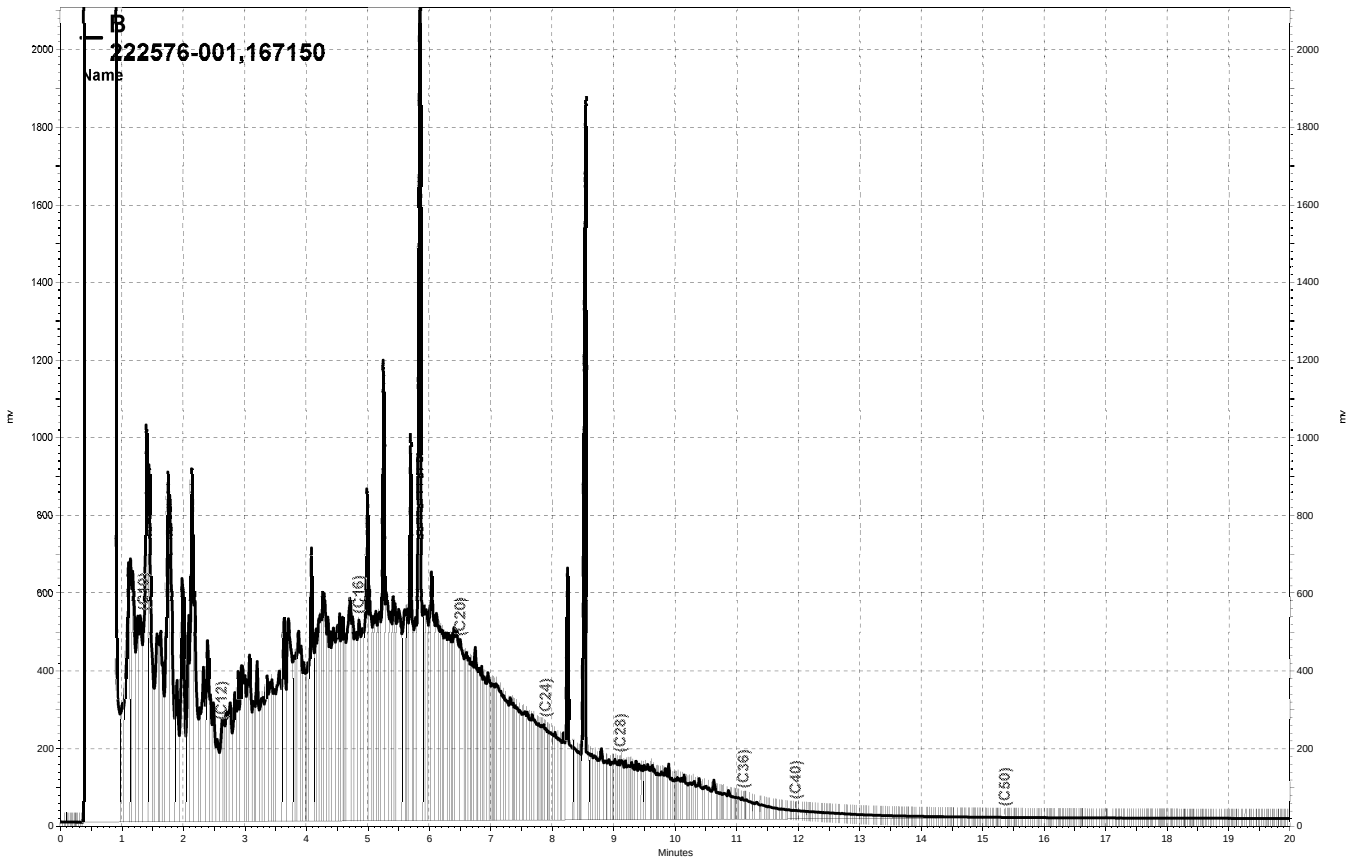
Type: MSD
Lab ID: QC561123

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,688	101	46-131	6	61

Surrogate	%REC	Limits
o-Terphenyl	99	60-129

RPD= Relative Percent Difference



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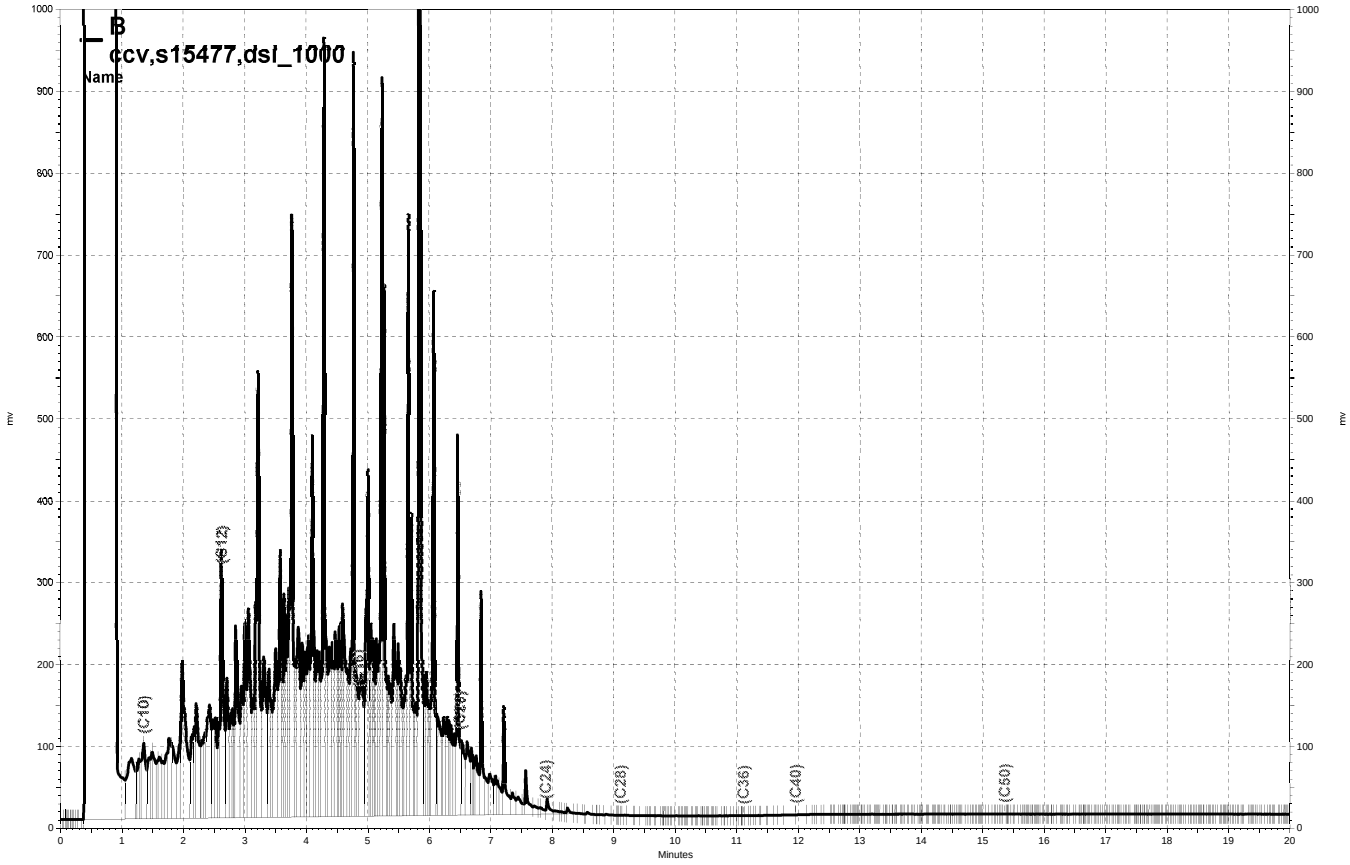

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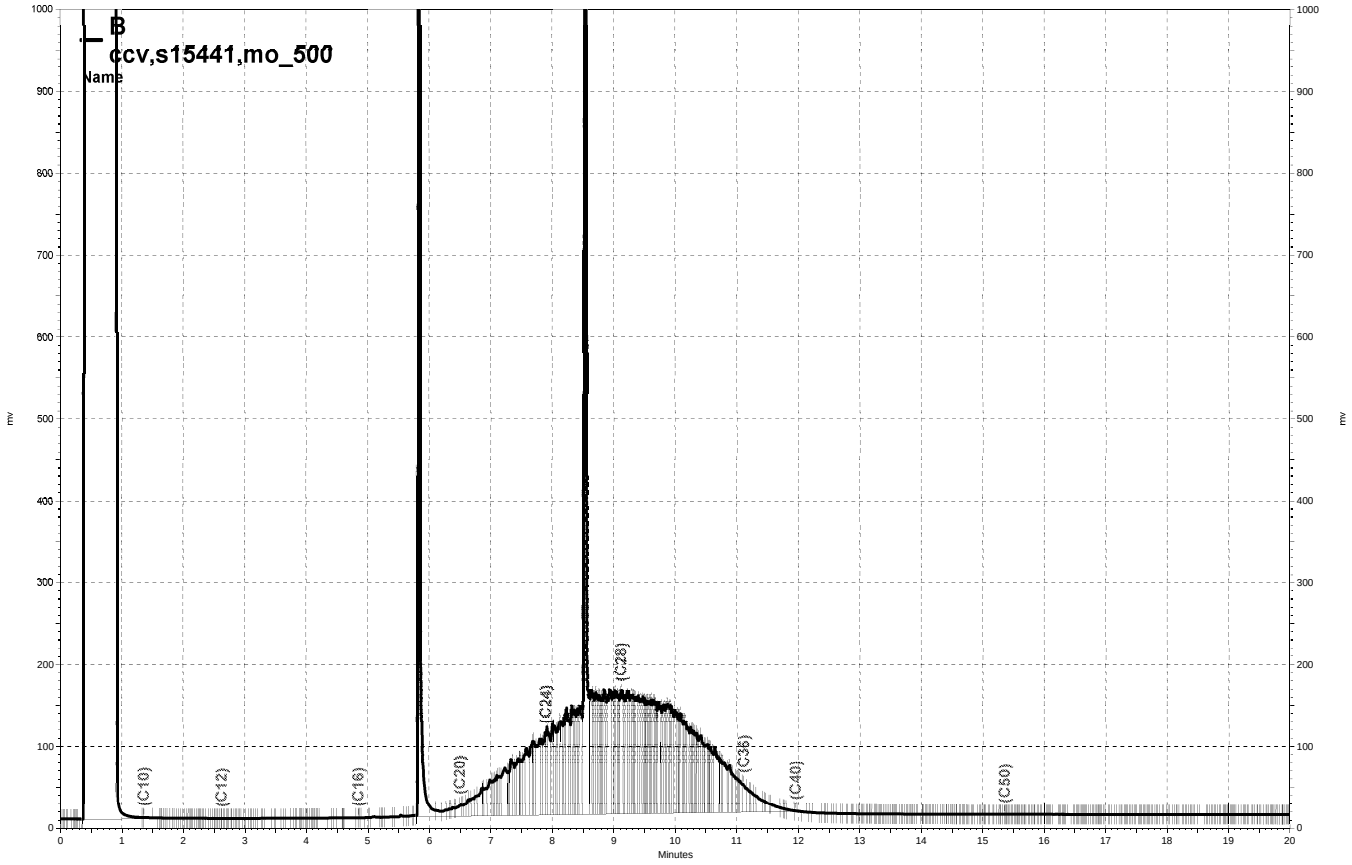

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APPENDIX D

Historical Groundwater Elevation Data

TABLE B
Historical Monitoring, Extraction, and Trench Well Elevations
6400 Christie Avenue, Emeryville, California

MW-1					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
1	Dec-88	14.39	9.60	NP	4.79
2	May-89	14.31[a]	8.73	NP	5.58
3	Feb-91	14.31	9.18	NP	5.13
Monitoring well abandoned - date unclear					

MW-2					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
1	Dec-88	14.36	9.64	NP	4.72
2	May-89	14.28[a]	8.78	NP	5.50
3	Feb-91	14.28	9.61	NP	4.67
Monitoring well abandoned - date unclear					

MW-3					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
1	Dec-88	14.53	8.93	trace	5.60
2	May-89	14.43[a]	8.69	NP	5.74
3	Feb-91	14.43	8.31	NP	6.12
4	Mar-04	16.96[b]	9.47	NP	7.49
5	Dec-06	NA	NA	NA	NA
6	Dec-07	16.65[c]	7.76 [e]	7.76	8.89
7	Mar-08	16.65	8.72	8.70	7.93
8	Jun-08	16.65	8.56	NP	8.09
9	Sep-08	16.65	9.27	7.95	7.38
10	Dec-08	16.65	8.36	7.49	8.29
11	Mar-09	16.65	7.94	NP	8.71
12	Sep-09	16.65	8.58	NP	8.07
13	Mar-10	16.65	8.08 [e]	8.08	8.57
14	Sep-10	16.65	8.68 [e]	8.68	7.97

MW-4					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
1	Dec-88	14.21	8.29	NP	5.92
2	May-89	14.12[a]	7.75	NP	6.37
3	Feb-91	14.12	8.04	NP	6.08
4	Mar-04	16.74[b]	6.90	NP	7.49
5	Dec-06	NA	NA	NA	NA
6	Dec-07	16.29[c]	6.61	NP	9.68
7	Mar-08	16.29	7.24	NP	9.05
8	Jun-08	16.29	6.94	NP	9.35
9	Sep-08	16.29	6.85	NP	6.85
10	Dec-08	16.29	7.42	NP	8.87
11	Mar-09	16.29	6.90	NP	9.39
12	Sep-09	16.29	7.40	NP	8.89
13	Mar-10	16.29	7.08	NP	9.21
14	Sep-10	16.29	7.08	NP	9.21

MW-5					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
1	Dec-88	14.65	10.23	NP	4.42
2	May-89	14.56[a]	9.29	NP	5.27
3	Feb-91	14.56	10.04	NP	4.52
4	Mar-04	17.11[b]	9.10	NP	8.01
5	Dec-06	NA	NA	NA	NA
6	Dec-07	16.72[c]	9.66	NA	7.06
7	Mar-08	16.72	9.72	NP	7.00
8	Jun-08	16.72	9.72	NP	7.00
9	Sep-08	16.72	8.56	NP	8.16
10	Dec-08	16.72	9.75	NP	6.97
11	Mar-09	16.72	9.31	NP	7.41
12	Sep-09	16.72	9.79	NP	6.93
13	Mar-10	16.72	9.48	NP	7.24
14	Sep-10	16.72	9.90	NP	6.82

MW-6					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
1	Dec-88	14.75	8.10	NP	6.65
2	May-89	14.67[a]	7.58	NP	7.09
3	Feb-91	14.67	7.05	NP	7.62
4	Mar-04	17.22[b]	6.51	NP	10.71
5	Dec-06	NA	NA	NA	NA
6	Dec-07	16.82[c]	6.61	NP	10.21
7	Mar-08	16.82	7.02	NP	9.80
8	Jun-08	16.82	7.55	NP	9.27
9	Sep-08	16.82	6.06	NP	10.76
10	Dec-08	16.82	6.91	NP	9.91
11	Mar-09	16.82	6.45	NP	10.37
12	Sep-09	16.82	8.05	NP	8.77
13	Mar-10	16.82	6.66	NP	10.16
14	Sep-10	16.82	7.98	NP	8.84

MW-7					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed March 2004					
1	Mar-04	18.09	9.93	NP	8.16
2	Dec-06	NA	NA	NA	NA
3	Dec-07	17.73[c]	10.30	NP	7.43
4	Mar-08	17.73	10.51	NP	7.22
5	Jun-08	17.73	10.50	NP	7.23
6	Sep-08	17.73	10.37	NP	7.36
7	Dec-08	17.73	10.60	NP	7.13
8	Mar-09	17.73	10.13	NP	7.60
9	Sep-09	17.73	10.61	NP	7.12
10	Mar-10	17.73	10.02	NP	7.71
11	Sep-10	17.73	10.59	NP	7.14

MW-8					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed March 2004					
1	Mar-04	18.25	9.32	8.15	8.93
2	Nov-06[d]	16.96	10.59	NP	6.37
3	Dec-07	17.84[c]	9.42	NP	8.42
4	Mar-08	17.84	10.50	9.18	7.34
5	Jun-08	17.84	9.68	9.10	8.16
6	Sep-08	17.84	9.63	8.89	8.21
7	Dec-08	17.84	9.58	8.89	8.26
8	Mar-09	17.84	9.62	8.89	8.22
9	Sep-09	17.84	8.55 [e]	8.55	9.29
10	Mar-10	17.84	9.02 [e]	9.02	8.82
11	Sep-10	17.84	9.75	9.89	7.95

MW-9					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed March 2004					
1	Mar-04	18.27	9.38	NP	8.89
2	Dec-06	NA	NA	NA	NA
3	Dec-07	17.84[c]	9.54	NP	8.30
4	Mar-08	17.84	9.77	NP	8.07
5	Jun-08	17.84	9.68	NP	9.27
6	Sep-08	17.84	9.30	NP	8.54
7	Dec-08	17.84	9.83	NP	8.01
8	Mar-09	17.84	9.37	NP	8.47
9	Sep-09	17.84	9.70	NP	8.14
10	Mar-10	17.84	9.46	NP	8.38
11	Sep-10	17.84	9.75	NP	8.09

MW-10					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed March 2004					
1	Mar-04	18.21	9.87	8.24	8.34
2	Dec-06	18.21	9.30	8.86	8.91
3	Dec-07	17.83[c]	8.98 [e]	8.98	8.85
4	Mar-08	17.83	9.28	8.98	8.55
5	Jun-08	17.83	8.86	8.78	7.23
6	Sep-08	17.83	8.95	8.84	8.88
7	Dec-08	17.83	8.97	8.74	8.86
8	Mar-09	17.83	9.25	8.54	9.25
9	Sep-09	17.83	8.63	8.52	9.20
10	Mar-10	17.83	10.30	8.58	7.53
11	Sep-10	17.83	8.76	8.82	9.01

MW-11					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed May 2004					
1	Nov-06[d]	17.76[c]	10.33	NP	7.43
2	Dec-07	17.76	10.27	NP	7.49
3	Mar-08	17.76	10.34	NP	7.42
4	Jun-08	17.76	10.20	NP	8.16
5	Sep-08	17.76	10.03	NP	7.73
6	Dec-08	17.76	10.34	NP	7.42
7	Mar-09	17.76	10.20	NP	7.56
8	Sep-10	17.76	10.25	NP	7.51
9	Mar-10	17.76	10.23	NP	7.53
10	Sep-10	17.76	10.24	NP	7.52

MW-12					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed between 2004-2006					
1	Nov-06[d]	17.83[c]	9.37	NP	8.46
2	Dec-07	17.83	9.15	NP	8.68
3	Mar-08	17.83	9.11	NP	8.72
4	Jun-08	17.83	8.86	NP	8.97
5	Sep-08	17.83	8.76	NP	9.07
6	Dec-08	17.83	8.98	NP	8.85
7	Mar-09	17.83	8.50	NP	9.33
8	Sep-09	17.83	8.95	NP	8.88
9	Mar-10	17.83	8.66	NP	9.17
10	Sep-10	17.83	8.89	NP	8.94

MW-13					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed between 2004-2006					
1	Dec-06	17.66[c]	9.81	9.44	7.85
2	Dec-07	17.66	9.95	9.39	7.71
3	Mar-08	17.66	10.02	9.54	7.64
4	Jun-08	17.66	9.86	9.45	7.80
5	Sep-08	17.66	10.34	9.54	7.32
6	Dec-08	17.66	10.54	9.65	7.12
7	Mar-09	17.66	9.26	9.14	8.40
8	Sep-09	17.66	9.91[e]	9.72	7.75
9	Mar-10	17.66	9.22 [e]	9.22	8.44
10	Sep-10	17.66	9.40	10.18	7.48

MW-14					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed between 2004-2006					
1	Nov-06[d]	17.60[c]	9.11	9.11(sheen)	8.49
2	Dec-07	17.60	8.86	8.84	8.74
3	Mar-08	17.60	8.91	8.88	8.69
4	Jun-08	17.60	8.66	8.62	8.94
5	Sep-08	17.60	8.64	NP	8.96
6	Dec-08	17.60	8.70	NP	8.90
7	Mar-09	17.60	9.25	NP	9.25
8	Sep-09	17.60	8.80	NP	8.80
9	Mar-10	17.60	8.42	NP	9.18
10	Sep-10	17.60	8.56	8.62	8.98

MW-15					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed between 2004-2006					
1	Dec-06	17.80[c]	9.15	NP	8.65
2	Dec-07	17.80	9.30	NP	8.50
3	Mar-08	17.80	9.20	9.18	8.60
4	Jun-08	17.80	9.60	9.63	8.20
5	Sep-08	17.80	8.84	8.84[f]	8.96
6	Dec-08	17.80	9.19	8.36	8.61
7	Mar-09	17.80	8.70	NP	9.10
8	Sep-09	17.80	9.40 [e]	9.22	8.08
9	Mar-10	17.80	8.81 [e]	8.81	8.99
10	Sep-10	17.80	9.42	9.45	8.35

MW-16					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed between 2004-2006					
1	Dec-06	NA	NA	NA	NA
2	Dec-07	17.74[c]	9.36	NP	8.38
3	Mar-08	17.74	9.88	NP	7.86
4	Jun-08	17.74	9.25	NP	7.80
5	Sep-08	17.74	9.07	NP	8.67
6	Dec-08	17.74	9.45	NP	8.29
7	Mar-09	17.74	8.88	NP	8.86
8	Sep-09	17.74	9.51	NP	8.23
9	Mar-10	17.74	8.92	NP	8.82
10	Sep-10	17.74	9.40	NP	8.34

MW-17					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed between 2004-2006					
1	Dec-06	NA	NA	NA	NA
2	Dec-07	18.17[c]	9.40	9.32	8.77
3	Mar-08	18.17	9.34	9.18	8.83
4	Jun-08	18.17	8.98	8.97	9.19
5	Sep-08	18.17	9.21	7.92	8.96
6	Dec-08	18.17	9.25	9.11	8.92
7	Mar-09	18.17	8.89	NP	9.28
8	Sep-09	18.17	9.31	NP	8.86
9	Mar-10	18.17	8.93	NP	9.24
10	Sep-10	18.17	9.15	NP	9.02

MW-18					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
Installed between 2004-2006					
1	Dec-06	NA	NA	NA	NA
2	Dec-07	16.35[c]	8.30	NP	8.05
3	Mar-04	16.35	8.34	NP	8.01
4	Jun-08	16.35	8.34	NP	8.20
5	Sep-08	16.35	8.48	NP	7.87
6	Dec-08	16.35	8.61	NP	7.74
7	Mar-09	16.35	7.75	NP	8.60
8	Sep-09	16.35	8.50	NP	7.85
9	Mar-10	16.35	7.97	NP	8.38
10	Sep-10	16.35	8.28	NP	8.07

MW-E					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
1	Dec-88	NM	NM	NM	NM
2	May-89	15.32	10.39	NP	4.93
3	Feb-91	NM	NM	NM	NM
4	Mar-04	17.80	9.92	NP	7.88
5	Nov-06[d]	17.80	10.22	NP	7.58
6	Dec-07	17.47[c]	10.03	NP	7.44
7	Mar-08	17.47	10.21	NP	7.26
8	Jun-08	17.47	10.20	NP	7.27
9	Sep-08	17.47	9.55	NP	7.92
10	Dec-08	17.47	10.32	NP	7.15
11	Mar-09	17.47	9.79	NP	7.68
12	Sep-09	17.47	10.22	NP	7.25
13	Mar-10	17.47	9.82	NP	7.65
14	Sep-10	17.47	10.11	NP	7.36

RW-1					
Sampling Event No.	**Date**	**TOC Elevation**	**DTW**	**DTP**	**GW Elevation**
1	Dec-88	NM	NM	NM	NM
2	May-89	14.54	10.17	10.14	4.37
3	Feb-91	14.54	11.46	10.85	3.57
4	Mar-04	18.32	7.20	5.62	11.12
5	Nov-06[d]	18.32	9.15	9.11	9.17
6	Dec-07	16.70[c]	9.53 [e]	9.53	7.17
7	Mar-08	16.70	8.99	8.92	7.71
8	Jun-08	16.70	8.95	8.87	7.75
9	Sep-08	16.70	NM[c]	NM[c]	NM[c]
10	Dec-08	16.70	NM	NM	NM
11	Mar-09	16.70	9.06 [e]	9.06	7.64
12	Sep-09	16.70	9.45 [e]	9.45	7.25
13	Mar-10	16.70	8.93 [e]	8.93	7.77
14	Sep-10	16.70	9.50	9.65	7.05

Notes:

The 1988, 1989, and 1991 water elevations were measured by Groundwater Technology, Inc.

The 2004 and 2006 water elevations were measured by PES Environmental.

NS = Not sampled

NP = No product

NM - Not measured

NA = data not available from the previous consultant for this event

TOC Elevation = Top of Casing Elevation

DTW = Depth to water from the top of the casing

DTP - Depth to product from the top of the casing

GW Elevation - Groundwater elevation as compared to mean sea level

[a] Wells resurveyed in May 1989

[b] New elevation recorded by PES. Date of survey unclear.

[c] Wells resurveyed by PES in April 2007

[d] no water level data available for the December 2006 sampling event

[e] Thickness of product interfered with determining oil/water interface.

[f] Depth to groundwater = depth to free product as difference could not be determined

APPENDIX E

Historical Product Extraction Data Table

Table D
Historical Trench and Monitoring Well Product Recovery
6400 Christie Avenue, Emeryville, CA

	Well or Trench Location																											
Extraction Date	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**	**MW-8**	**MW-9**	**MW-10**	**MW-11**	**MW-12**	**MW-13**	**MW-14**	**MW-15**	**MW-16**	**MW-17**	**MW-18**	**MW-E**	**RW-1**	**TA-E**	**TA-M**	**TA-W**	**TB-E**	**TB-M**	**TB-W**	**TC-E**	**TC-M**	**TC-W**	**Total Extracted**
Apr-04	---	---	---	---	---	1.00	---	1.00	---	---	---	---	---	---	---	---	---	19.75	---	---	---	---	---	---	---	---	---	21.75
May-04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	22.5	---	---	---	---	---	---	---	---	---	22.50
Sep-04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.74	---	---	---	---	---	---	---	---	---	0.74
Oct-04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5.22	---	---	---	---	---	---	---	---	---	5.22
2004 Total																												**50.21**
Jan-05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00
Apr-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.3	---	---	---	---	---	---	3.30
Jun-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8.9	9.2	10.3	---	---	---	---	---	---	28.40
Jul-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.6	5	5.3	---	---	---	---	---	---	13.90
Aug-06	---	---	---	---	---	0.8	---	0.8	---	---	1	0.2	0.2	---	---	---	---	---	0.2	0.2	0.4	---	---	---	---	---	---	3.80
Sep-06	---	---	---	---	---	---	---	0.8	---	---	0.2	0.3	---	---	---	---	---	---	0.6	---	0.6	---	---	---	---	---	---	2.50
Nov-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	---	---	---	---	---	---	---	---	0.20
Dec-06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	---	---	---	---	---	---	---	---	0.20
2006 Total																												**52.30**
Jan-07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	---	---	---	---	---	---	---	---	0.20
Feb-07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	---	---	---	---	---	---	---	---	0.20
Mar-07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	---	---	---	---	---	---	---	---	0.20
Nov-07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.81	0.68	---	---	---	0.63	---	---	2.12
Dec-07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.61	0.07	---	---	---	0.002	---	---	0.69
2007 Total																												**3.41**
Feb-08	0.03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.45	0.08	0.06	0.18	0.04	0.06	0.06	0.08	0.05	0.05	1.14
Feb-08	---	---	0.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.45	0.15	0.15	0.30	---	---	---	---	---	---	1.10
Mar-08	---	---	---	0.02	0.002	0.02	0.001	0.04	0.02	0.03	0.004	0.01	0.02	0.01	0.01	0.003	0.012	0.3	0.09	0.06	0.09	---	---	---	0.06	---	---	0.80
Mar-08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.008	---	---	---	---	---	---	0.01
May-08	0.09	---	---	---	---	---	---	0.075	---	0.075	0.019	0.009	---	---	0.13	---	---	1.397	0.866	1.466	1.431	---	---	---	---	---	---	5.56
Jun-08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.15	0.11	0.57	---	---	---	---	---	---	0.83
Aug-08	0.12	---	---	---	---	---	---	0.048	---	0.024	0.009	---	---	---	---	---	---	0.75	0.9	1.6	0.7	0.3	0.3	---	0.15	---	---	4.90
Sep-08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03	0.09	0.048	---	---	---	---	---	---	0.17
Nov-08	0.078	---	---	---	---	0.009	---	---	---	0.06	0.009	---	---	0.003	0.06	---	---	0.6	0.1	0.03	---	0.06	0.06	0.06	0.06	0.09	0.09	1.37
Dec-08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0003	0.08	---	---	---	---	0.03	---	---	0.11
2008 Total																												**15.99**
Mar-09	0.279	---	---	---	---	0.378	---	0.369	---	0.261	0.007	0.023	0.117	---	0.342	---	0.023	1.800	0.750	0.950	1.010	0.153	0.153	0.153	0.653	0.153	0.153	7.73
Jun-09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	---	---	---	---	---	---	---	---	0.50
Sep-09	0.286	---	---	---	0.022	0.418	---	0.176	0.308	0.176	0.088	0.007	0.176	0.088	0.176	0.022	0.066	7.15	1.4	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	19.46
Dec-09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0	0.9	0.06	---	---	---	0	---	---	0.96
2009 Total																												**28.65**
Mar-10	0.14	---	---	---	0.01	0.18	0.02	0.60	---	0.60	0.03	0.10	0.69	0.04	0.30	0.02	---	8.00	1.30	1.00	1.00	0.50	1.00	0.50	1.00	1.00	1.00	19.03
Jun-10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.75	---	---	---	---	---	---	---	0.75
Sep-10	0.3	0.2	0.4	0.5	0.01	0.5	0.01	0.5	---	1.6	0.02	0.01	1.5	0.02	1.0	0.02	0.1	6.9	1.00	1.00	1.00	0.3	0.3	0.4	1.00	0.5	0.5	19.59
Dec-10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.10	0.00	0.05	---	---	---	0.00	---	---	0.15
2010 Total																												**39.52**
Total Extracted	**1.32**	**0.20**	**0.45**	**0.52**	**0.04**	**3.31**	**0.03**	**4.41**	**0.33**	**2.83**	**1.39**	**0.66**	**2.70**	**0.16**	**2.02**	**0.07**	**0.20**	**76.01**	**21.73**	**25.17**	**28.30**	**2.45**	**2.97**	**2.27**	**4.77**	**2.89**	**2.89**	**190.08**

Note:

All free product quantities presented in gallons

Product extraction events conducted before November 2007 were completed by PES Environmental

APPENDIX F

Groundwater Disposal Documentation

EES-4

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CA0000331636	1	1-800-424-9300	006400294 JJK

GENERATOR

5. Generator's Name and Mailing Address
Bay Center Apartments
6960 Christie St
Emeryville CA 94608
Generator's Phone: 510-594-2010

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Evergreen Environmental Services — U.S. EPA ID Number: CAD982413262

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
EVERGREEN OIL, INC.
6880 SMITH AVE., NEWARK CA. 94560
510-795-4400
Facility's Phone:
U.S. EPA ID Number: CAD980887418

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE, LIQUID (Oil & water)	001	TT	1050	G	223
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
PROFILE # 40173
DOT ERG# 171 WEAR PROTECTIVE CLOTHING
Invoice # 557929
Sales Order # 298353

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Hallglass Mgmt of Emeryday LLC — Signature: [signature] — Month 09 Day 30 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tom L Powell — Signature: [signature] — Month 09 Day 30 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE [illegible]