UNDERGROUND HEATING OIL STORAGE TANK REMOVAL DOCUMENTATION REPORT

387 ORANGE STREET
OAKLAND, CALIFORNIA

Prepared for:

MS. MARY KRANZ
(ADMINISTRATOR OF THE ESTATE OF DAVID ULIBARRI)
10106 CORONADO AVENUE NE
ALBUQUERQUE, NEW MEXICO

September 2007

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Prepared by:

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September 26, 2007

Project No. 2007-09

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September 26, 2007

Mr. Keith Matthews
Oakland Fire Department
Hazardous Materials Inspector
250 Frank H. Ogawa Plaza, Suite 3341
Oakland, California 94612-2032

Subject: Underground Heating Oil Storage Tank Removal Documentation Report
387 Orange Street, Oakland, California (Fuel Leak Case No. RO0002921)

Dear Mr. Mathews:

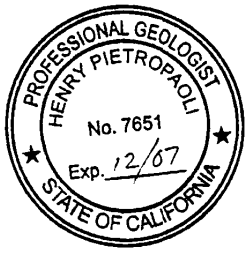
Stellar Environmental Solutions, Inc. (SES) is pleased to submit this report of findings for the recent underground heating oil storage tank (UST) removal at the referenced site, on behalf of the responsible party, Ms. Mary Kranz: the Administrator of the Estate of David Ulibarri. The objective of the work was to remove the UST beneath the sidewalk that fronts the subject property along with any associated contaminated soil associated that was accessible.

As required, an Underground Storage Tank Unauthorized Release (Leak) Contamination Site Report was submitted to the Alameda County Department of Environmental Health, and a copy is included in Appendix B.

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 me at (510) 644-3123.

Sincerely,

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



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

cc: Ms. Mary Kranz – Administrator of the Estate of David Ulibarri
Mr. Steven Plunkett – Alameda County Health Care Services Agency

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1.0 INTRODUCTION

SUBJECT PROPERTY UNDERGROUND STORAGE TANK HISTORY

The objective of the work was to remove a 1,000-gallon home heating oil underground storage tank (UST) located beneath the sidewalk in front of the subject property; this UST has been documented in two previous investigations as being associated with residual soil and potential groundwater contamination.

The subject site UST is typical of historical USTs that supplied fuel to the boiler to heat a residential unit before on-demand natural gas became widely used. The current property owners have no records pertaining to installation or usage of the UST; presumably, it was installed at the time the 387 Orange Street residential building was constructed. Such fuel USTs were commonly buried beneath the sidewalk near the driveway, as in the case of the subject site UST (located beneath the sidewalk on Orange Street on the northeastern edge of the subject property). The size of the UST (1,000 gallons) is also typical for a multi-unit building heating oil UST. A site inspection revealed evidence of a fill pipe in the sidewalk area.

The regulatory history of this UST evaluation project began in approximately October 2005, during the due diligence phase of the sale of the adjacent property located at 385 and 387 Orange Street (properties owned by the Ulibarri Estate). At that time, the oil UST between the 385 and 387 Orange Street residences, which was associated with historical fueling of a boiler located within the 387 Orange Street residence, was discovered. As part of the real estate agreement, it was stipulated that the Ulibarri Estate would be responsible for the regulatory closure of the fuel UST.

In February 2006, Ms. Mary Kranz, Administrator of the Estate of David Ulibarri, retained Clearwater Group to initiate the environmental closure of the historical UST. While Clearwater Group was originally retained to remove the UST, the stringent site constraints prompted an application to the Oakland Fire Prevention Bureau to "Abandon/Close in Place" the 1,000-gallon UST (Tank Permit Number T-06-0008, granted on February 28, 2006). The "Closure in Place" required that subsurface sampling be conducted to document if any residual contamination remained at concentrations of potential regulatory concern. An initial site investigation by Clearwater Group in March 2006 documented soil contamination, including 15,000 milligrams per kilogram (mg/kg) of total extractable hydrocarbons as diesel (TEHd) and trace amounts of ethylbenzene and total xylenes. The application for "Closure in Place" of the UST was denied, and the site was designated

a fuel leak case by the Alameda County Health Care Services Agency, Department of Environmental Health (ACEH) (ACEH No. RO0002921and California GeoTracker ID #T06019730058).

In a letter dated December 20, 2006, the ACEH requested an investigation of the extent of soil contamination and potential groundwater contamination. SES, retained by Ms. Mary Kranz, submitted a technical workplan (dated January 31, 2007) to the ACEH and conducted an investigation on May 31, 2007. The investigation revealed significant hydrocarbon concentrations (2,400 milligrams per liter [mg/L] of TEHd in the groundwater at a depth of about 25 feet below ground surface (bgs). Soil contamination appeared to be directly beneath the UST. The results precluded the idea of leaving the UST in place—which would have been possible if no significant contamination had been discovered.

The ACEH responded to the SES report with a letter (dated July 16, 2007) requesting a workplan to remove the UST and mitigate the "soil and groundwater contamination." However, because of site constraints, groundwater was not accessible during this investigation, which focused on the removal of the UST and associated accessible contaminated soil.

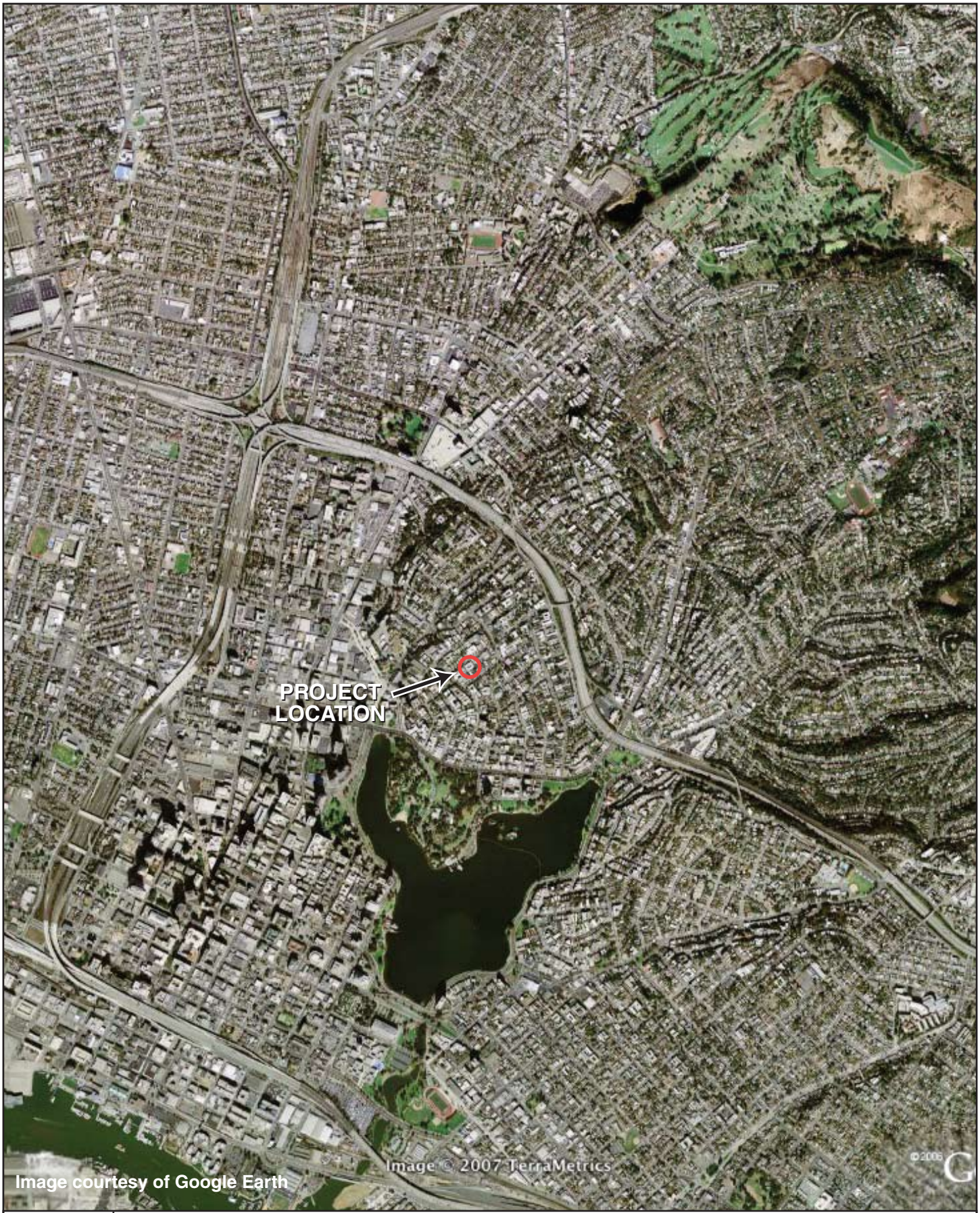
Figure 1 shows the site location.

SITE DESCRIPTION

The subject site is located in a residential area of Oakland, California. The former UST supplied fuel to the boiler to heat the 387 Orange Street residence. The UST was located on City of Oakland property beneath the sidewalk in of straddling between the front of the 385 and 387 Orange residences.

TOPOGRAPHY AND SURFACE WATER DRAINAGE

The site is on a gently sloping alluvial fan at the base of the Berkeley/Oakland Hills, which rise approximately 1,100 feet above mean sea level (amsl) and are located approximately 3 miles east of San Francisco Bay. The mean elevation of the subject property is approximately 105 amsl. The subject property is in a moderately hilly area with a local downward sloping topographic gradient to the north-northwest. The nearest surface water body is Glen Echo Creek, a northeast-southwest trending creek located approximately 1,500 feet northwest to west of the subject property where it becomes culverted prior to emptying into Lake Merritt (located about ½ mile south-southwest of the site).



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SITE LOCATION ON AERIAL PHOTO

385-387 Orange St. Oakland, CA	By: MJC	SEPTEMBER 2007
	Figure 1	

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2007-09-01

LITHOLOGY AND HYDROGEOLOGY

The site is underlain by Late Pleistocene alluvium that generally consist of weakly consolidated slightly weathered poorly sorted irregularly interbedded clay, silt, sand, and gravel. Local heterogeneities in shallow lithology and groundwater levels are typical of the alluvial deposits in this area.

Shallow site lithology was determine by the visual method of the Unified Soils Classification System (USCS) using continuous core soil samples from two previous borehole programs. The lithology encountered in boreholes B-1 and B-2 consisted of light brown clayey silt from the ground surface that extended from 6 to 9 feet bgs; this was underlain by light brown silty clay to clay with occasional zones of interbedded fine sands that persisted to the bottom of the borings (which ranged from 22 to 24 feet bgs). In B-4, a clay interval was encountered from near surface to 6 feet bgs; this was underlain by clayey silt that extended to 11 feet bgs, at which depth it was underlain by the silty clay encountered in borings B-1 and B-2. Light brown yellow silt was encountered in boring B-A to a depth of 6 to 7 feet bgs, and was abandoned after encountering the top of the UST.

The subject property is in the Oakland sub-area boundary of the East Bay Plains groundwater basin according to the East Bay Plain Groundwater Basin Beneficial Use and Evaluation Report (Water Board, 1999). This hydrologic sub-area, similar to much of the East Bay plains, consists of a sequence of alluvial fans downslope of upland hill and estuarine muds at the Bay margins. Groundwater was encountered in borings B-1 and B-2 at approximately 21 feet bgs.

2.0 UST REMOVAL

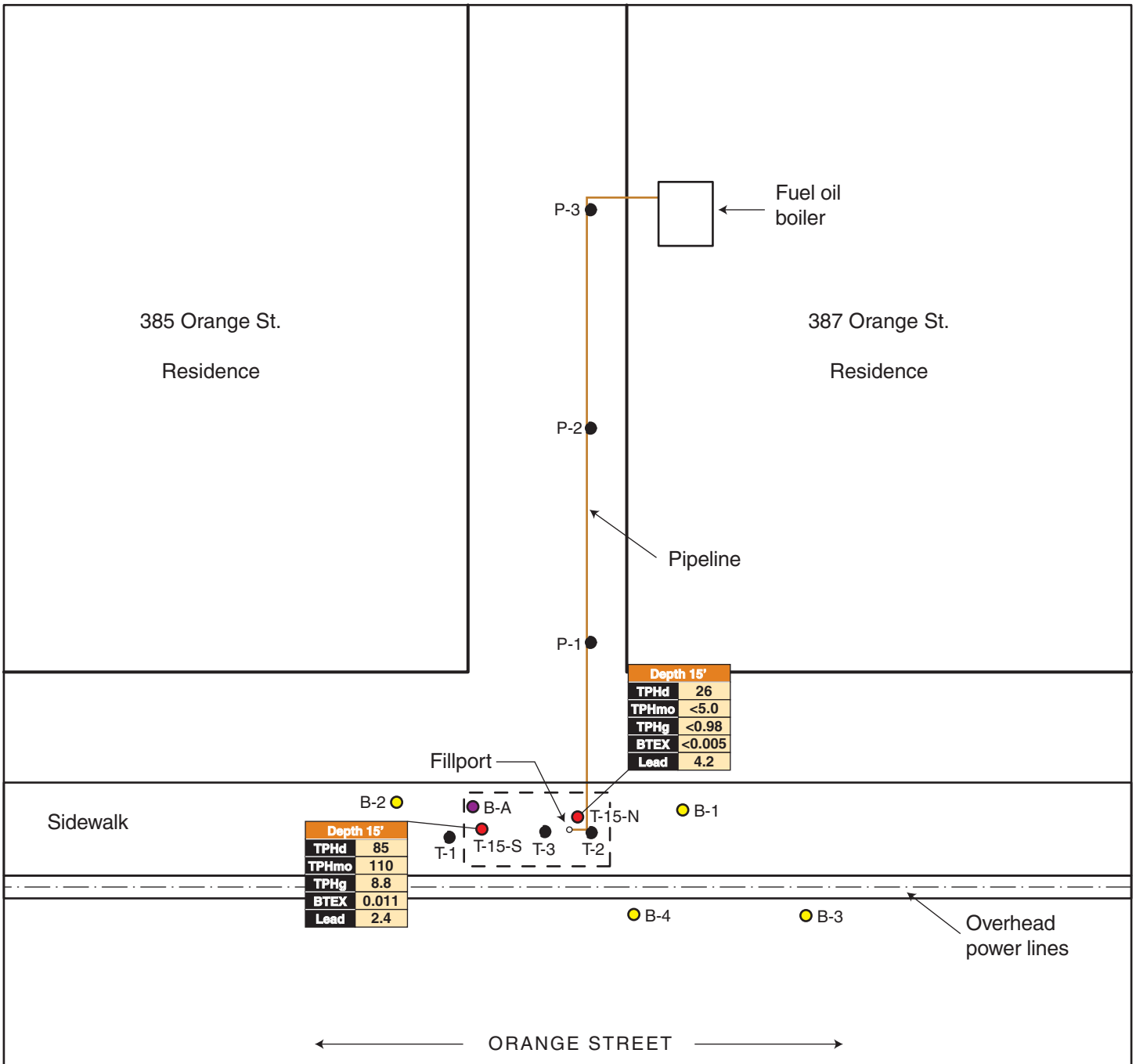
This section summarizes the pre-field work planning, UST removal activities, confirmation sampling, and waste disposal issues. Figure 2 shows the UST and confirmation sampling locations. Appendix A contains photodocumentation of the removal activities. Regulatory agency permits are contained in Appendix B.

UNDERGROUND HEATING OIL STORAGE TANK REMOVAL

Participants

The following companies or agencies participated in the UST removal:

- ***Speelman Excavation (Ripon, California)*** (California Contractor's License No. 734167; Hazardous Substances Removal Action Certification No. A7301)
- ***Uniwaste Inc.*** (U.S. Environmental Protection Agency [EPA] Transporter ID No. CAL000317320): UST residual liquid and rinseate removal, transport, and recycling
- ***Ecology Control Industries*** (EPA Transporter ID No. CAD982030173): UST offsite transport
- ***Ecology Control Industries*** (EPA ID No. CAD982030173): UST scrapping/ decommissioning
- ***Curtis and Tompkins, Ltd.*** (ELAP No. 1107): soil sample chemical analyses
- ***City of Oakland Fire Department, Office of Emergency Services***: Permitting agency for tank removal and initial lead agency with regard to any tank-related environmental issues
- ***Korbmacher Engineering (Livermore, California)***: soil compaction testing engineers
- ***Stellar Environmental Solutions, Inc. (Berkeley, California):*** property owner's consultant responsible for preparing this closure report



LEGEND

- UST Confirmation sample
- TPHd Total petroleum hydrocarbons as diesel
- BTEX Benzene, toluene, ethyl benzene, xylenes
- THPmo Total petroleum hydrocarbons as motor oil
- THPg Total petroleum hydrocarbons as gasoline
- Former UST location

Concentrations in mg/kg

- P-2 Clearwater group pipeline sample (2006)
- T-2 Clearwater group tank sample (2006)
- B-1 SES Boring (2007)
- B-A Abandoned boring location (SES, 2007)

0 10

APPROX. SCALE IN FEET

UST CONFIRMATION SOIL ANALYTICAL RESULTS

385-387 Orange St. Oakland, CA	By: MJC	SEPTEMBER 2007
	Figure 2	

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PRE-FIELD WORK PLANNING AND PERMITTING

Permitting and Notifications

Prior to removal of the UST, the appropriate permits were obtained and regulatory agencies notified by SES, on behalf of the Estate of David Ulibarri. These included:

- City of Oakland Public Works Agency Traffic Control Permit (as required when conducting work on a public street or sidewalk within the city of Oakland)
- City of Oakland Public Works Agency Excavation Permits (X070832 and XO70833)
- City of Oakland Public Works Agency Obstruction Permit (OB070563) (as required when conducting work on a public street or sidewalk within the city of Oakland)
- Application for UST Removal Permit from the Oakland Fire Department Office of Emergency Services
- Coordination with the Oakland Fire Department regarding onsite inspection of UST removals

SES also completed the following pre-field work elements:

- Conducted a site inspection bid walk to select certified contactors and determine working space and equipment logistics
- Updated the site-specific Health and Safety Plan (HASP) to reflect the UST removal, and provided the HASP to the Fire Department as part of its UST removal application process
- Provided neighborhood notifications, and placed "no parking" and detouring placards on the sidewalk 3 days before the scheduled work
- Marked the excavation location with white paint and reported the planned activities to Underground Service Alert of Northern California, which is responsible for notifying local utility companies to conduct a site-specific survey and mark underground utilities (USA ticket #298297)
- Notified the Bay Area Air Quality Management District about the planned site activities in accordance with Regulation 8 Rule 40 Notification

UST Removal

UST removal activities began on the morning of August 27, 2007. The first task was to remove the residual contents of the UST and rinse the interior. As recorded on the Uniwaste, Inc. Hazardous Materials Manifest (dated August 27, 2007), approximately 400 gallons of residual heating oil and rinseate water was pumped from the UST directly into a tanker truck by vacuum pump, and was removed from the site. Before the concrete sidewalk and soil over burden were removed,

approximately 200 pounds of dry ice pellets (solid carbon dioxide) was added to the UST through the fillport to render its interior atmosphere inert (non-flammable). The approximately 5-inch-thick concrete sidewalk overlying the UST was then broken up and removed, and overlying backfill material was excavated to expose the top and sides of the UST. Uncovering of the UST was witnessed on August 27, 2007 by Mr. Steve Plunkett of ACEH. The top of the UST was located at approximately 9 feet bgs. The fill port piping was removed along with the UST. The interior of the UST was measured with a lower explosive limit meter, and was determined to be non-explosive; the UST was then lifted and removed from the excavation at approximately 2:30 p.m., in the presence of Mr. Keith Matthews of the Oakland Fire Department. The UST appeared very rusty and corroded with obvious holes and cracks. The UST was visually inspected and photographed by all parties. Following this visual inspection, the UST was loaded for offsite transport and disposal under Hazardous Waste Manifest (see Section 3.0 for discussion).

The service line piping extending from the UST to the 387 Orange Street address was located on private property. The piping was not removed because it contained no fuel product, and an investigation conducted in January 2006 showed no significant contamination in the soil.

Appendix A contains photodocumentation of the UST removal activities. Appendix B contains documentation of the Oakland Fire Department inspection of field activities.

UST Excavation Confirmation Sampling

Excavation confirmation sampling was conducted immediately after the UST removal, as directed by Mr. Keith Matthews of the Oakland Fire Department. The following soil samples were collected:

- northeast (fillport) end of excavation base at 15 feet bgs (sample "T-15-N")
- southwest end of excavation base at 15 feet bgs (sample "T-15-S")

The soil samples were collected by digging into native soil, approximately 1 foot below the bottom of the UST invert with the backhoe bucket, and collecting the sample using a hand-held percussion sampler loaded with a 2-inch-diameter stainless steel liner. The soil samples were sealed with Teflon® sheeting and plastic end caps. The samples were placed in an ice chest with ice at approximately 4°C and transported to the analytical laboratory under chain-of-custody the following day (August 28, 2007). Laboratory analysis was conducted by Curtis and Tompkins, Ltd. (of Berkeley, California), an analytical laboratory certified by the State of California Environmental Laboratory Accreditation Program.

Residual Soil Contamination

Soil contamination remaining in the excavation was evidenced by discolored soil and petroleum odor, and noted in the Oakland Fire Department Field Inspection Report (see Appendix B). Site building constraints and overhead power lines prevented contaminated soil removal below 15 feet bgs, the maximum reach of the excavator that could fit and operate in this situation.

WASTE DISPOSAL AND SITE RESTORATION

Due to site constraints, no soil or debris was stockpiled at the site. Concrete sidewalk debris, excavated overburden soil, and accessible soil to an approximate depth of 15 feet were directly loaded into a dump truck for disposal to a Class II landfill. Analytical results from two previous boring investigations were used to profile the excavated soil for landfill disposal.

The excavation was backfilled with Class 2 base rock and tested at 95 percent compaction by a representative of Korbmacher Engineering (of Livermore, California), as required by the City of Oakland Construction Department. The certified compaction test is contained in Appendix B. A new concrete sidewalk was installed, a tree in the median strip was replaced, and damaged irrigation piping was replaced.

3.0 ANALYTICAL METHODS AND RESULTS, REGULATORY CONSIDERATIONS, AND CONTAMINANT CONCEPTUAL MODEL

ANALYTICAL METHODS

The two confirmation soil samples collected below the UST were analyzed in accordance with the Oakland Fire Department's UST Closure Plan:

- TEHd and total volatile hydrocarbons as motor oil (which includes oil & grease range), by EPA Method 8015B
- Total volatile hydrocarbons as gasoline, by EPA Method 8015B
- Benzene, toluene, ethylbenzene and total xylenes, by EPA Method 8021B
- Total lead, by EPA Method 6010B

Laboratory quality control samples (e.g., method blanks, matrix spikes, surrogate spikes, etc.) were analyzed by the laboratory in accordance with requirements of each analytical method. All laboratory quality control sample results and sample holding times were within the acceptance limits of the methods (Appendix D). Appendix D contains the available analytical laboratory reports and chain-of-custody records.

UST CONFIRMATION SAMPLE ANALYTICAL RESULTS

Table 1 summarizes the analytical results of the UST confirmation soil samples. No contaminants were detected above the environmental screening levels.

Two previous boring investigations documenting soil and groundwater contamination indicated an historical leak in the UST and/or piping. TEHd was detected during this investigation in both UST confirmation soil samples at concentrations below Water Board Environmental Screening Levels (ESLs).

Table 1
August 2007 UST Removal Soil Sampling Analytical Results
387 Orange Street, Oakland, California

Sample I.D.	Sample Depth (feet)	TEHd	TVHg	TVHmo	Benzene	Toluene	Ethyl benzene	Total Xylenes	Total Lead
T-15-N (northeast)	15	26	*<0.98*	*<5.0*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	4.2
T-15-S (southwest)	15	85	8.8	110	*<0.005*	*<0.005*	*<0.005*	0.011	2.4
Soil ESLs		100	100	1,000	0.044	2.9	3.3	2.3	150

Notes:

ESLs = Water Board Environmental Screening Levels for residential sites where groundwater *is* a potential drinking water resource

TEHd = total extractable hydrocarbons – diesel range

TVHg = total volatile hydrocarbons – gasoline range

TVHmo = total volatile hydrocarbons – motor oil range (includes oil & grease range)

Samples in **bold-face type** exceed the ESL criterion. All results are reported in mg/kg.

REGULATORY STATUS

The UST has not been under regulatory oversight through permitting or other mechanisms. There are no records in possession of the current property owners pertaining to installation or usage of the UST, and it was presumably installed at the same time the residential building was constructed, approximately 80 years ago.

Oakland Fire Department

The Oakland Fire Department (OFD) has permitting responsibility and regulatory oversight for removal of the UST. If there is no indication of subsurface contamination (i.e., all samples collected come back with non-detectable results), the Oakland Fire department can close the case. If the UFST removal proceeded according to their requirements but there is evidence of some subsurface contamination then the OFD will approve the UST closure but send out a notification to Alameda County Department of Environmental Health (ACEH) whom will evaluate the issues associated with contamination.

In this particular case there were environmental investigations that occurred before the UST removal because of the physical constraints to removal of the UST and the agreement of the OFD to allow an in-place closure if it was demonstrated to ACEH satisfaction that there was no contamination.

However, as discussed below, subsurface contamination was discovered in the first soil investigation in 2006.

Alameda County Environmental Heath

An interim investigation report by Clearwater Group documenting residual soil contamination associated with the UST (Clearwater Group, 2006) initiated the regulatory record of ACEH oversight of the site. The ACEH considers this case an active fuel leak case (ACEH Case No. RO0002921), and the ACEH file contains full documentation of this UST closure and previous investigations. The case has also been assigned as No. T06019730058 in the State Water Resources Control Board's GeoTracker system. Electronic uploads of required data/reports have been submitted to both of these agencies.

The ACEH is a Local Oversight Program to the Water Board, which has ultimate decision-making authority on contamination issues affecting groundwater. The lead agency for the UST removal, the Oakland Fire Department, has received a copy of this closure documentation report (as has the ACEH). The UST was lifted and removed from the excavation at approximately 2:30 p.m. on August 27, 2007 in the presence of Mr. Keith Matthews of the Oakland Fire Department. Uncovering of the UST was also witnessed on August 27, 2007 by Mr. Steve Plunkett of the ACEH.

State of California UST Cleanup Fund Status

Costs incurred for contaminant investigations and remediation conducted before and after the UST was removed are potentially reimbursable from the State of California Underground Storage Tank Cleanup Fund (Fund). That process requires the submission of an application to determine eligibility, followed by formal requests for reimbursement. SES has initiated communication with the Fund regarding this site and has begun the Fund reimbursement process.

REGULATORY CONSIDERATIONS REGARDING RESIDUAL CONTAMINATION

The Water Board evaluates soil contamination in the context of potential impacts to groundwater and other sensitive receptors (such as surface water) on a case-specific basis. While the Water Board adheres to the State of California's policy of non-degradation of groundwater specified in the Porter Cologne Water Quality Act, it recognizes that some degradation is likely to be irreversible, and therefore will grant case closures where it can be demonstrated that no public health or ecological risks will occur as a result of the residual contamination.

The Water Board has historically utilized a Designated Level Methodology (DLM) as a guide in determining if a waste at a given site poses unacceptable impacts, and if so, what cleanup level is needed. The DLM calculations are site-specific and consider the depth to groundwater, type of soil, total pollutant load, amount of rainfall, and attenuation factors. Relevant criteria for soil

contamination by the regulatory environment for petroleum hydrocarbon contamination are generally evaluated on a case-by-case basis, most often using some form of the Water Board's DLM discussed above. The LUFT manual uses the DLM approach, which is recommended to evaluate the likelihood of impacts to groundwater from contaminated soil.

More recently, the Water Board published ESLs, which are conservative screening-level concentrations for soil and groundwater that incorporate both environmental and human health risk considerations; the ESLs are used as a preliminary guide in determining whether additional remediation and/or investigation are warranted. The ESLs are not cleanup goals, although in most cases contaminant concentrations less than ESLs result in "no further action" status being granted by the Water Board. Likewise, contamination in excess of ESLs does not necessarily mean that additional work is required, only that site-specific data may need to be incorporated into the risk decision process.

No contaminants were detected above the ESLs in soil collected during this UST removal investigation. However, during the March 2006 Clearwater Group investigation, 15,000 mg/kg of TEHd was found, while the April 2007 SES investigation revealed significant concentrations of TEHd (2,400 mg/L) in groundwater below the UST at a depth of about 23 feet.

CONCEPTUAL MODEL OF CONTAMINANT TRANSPORT

The site conceptual model suggests that the onsite soil and groundwater contamination originated from leaks in the UST and/or associated piping. The source of the related contamination is assumed to be undocumented usage and release of heating oil from the UST. The highest concentration of contamination in soil was detected near the fillport end of the UST during the March 2006 Clearwater Group investigation. Elevated levels (below ESLs) of TEHd were detected in both UST confirmation soil samples during this investigation, indicating a source of residual contamination. This was also indicated in the two previous boring investigations, in 2006 and 2007. Contaminated soil was removed to a depth of approximately 15 feet bgs, the maximum extent possible given the site constraints.

The fuel contamination migrated downward from the UST/piping source area, in what appears to be a steeply inclined (near vertical) inverted cone geometry downward through the laterally uniform clayey sand until it reached groundwater observed during the April 2007 investigation to occur at approximately 21 feet bgs.

The extent of the groundwater contaminant plume is determined by the mass of residual soil contamination, hydrogeologic characteristics, and the ability of natural degradation mechanisms to reduce contaminant mass. Groundwater contamination will continue to migrate downgradient from

the source area, primarily by advection. Shallow groundwater will likely continue to be degraded by the remaining residual soil contamination by desorption from soil into groundwater.

Dissolved contamination in groundwater migrates in the direction of groundwater flow, likely to the northwest. The lateral extent of the groundwater contamination is controlled by the permeability of the soils, the hydraulic gradient, and the groundwater contaminant source concentrations. The limited data available are insufficient for an evaluation of the extent of groundwater contamination or the stability of contaminant concentrations (i.e., determining whether the "plume" is stable or reducing).

Most hydrocarbon plume conceptual models show biodegradation of petroleum hydrocarbons in groundwater as having a significant role in creating a stable plume, minimizing groundwater plume configuration and concentrations over time (Lawrence Livermore National Laboratory, 1995). In general, natural attenuation of petroleum in groundwater is very likely occurring; however, petroleum concentrations are sufficient at this site to overwhelm the biodegradation process (i.e., in the high concentration area of the plume). In these areas, biodegradation progresses until one of the process-limiting factors (usually oxygen) is depleted to the point at which biodegradation is not supported.

RESIDUAL CONTAMINATION AND POTENTIAL MIGRATION

There is an estimated 10 to 20 cubic yards of contaminated soil remaining in the ground, as determined from this UST removal and the two previous soil boring investigations. In addition, visible "floating fuel product" was observed in groundwater that was collected (from 21 to 23 feet bgs) immediately below the fillport end of the UST in the April 2007 SES boring investigation. Shallow groundwater will likely continue to be degraded by the remaining residual soil contamination by desorption from soil into groundwater.

GROUNDWATER IMPACTS AND BENEFICIAL USES

In general, impacts of contamination on the environment by fuel contaminants are evaluated on a case-by-case basis, with consideration given to drinking water standards when appropriate. Because no water-bearing zone or aquifer in this area is used for drinking or other types of water use, application of the drinking water standard does not appear to be appropriate. However, for consideration of the ESLs, the Water Board generally rules by the assumption that site groundwater is a known or potential source of drinking water, unless a site-specific variance is granted. The likelihood of groundwater impacts to beneficial use in this area appears to be negligible. Groundwater contamination was not documented in this investigation; however, in the April 2007 investigation, TEHd was detected at 2,400 mg/L. Remediating the groundwater would require the application of a method such as groundwater extraction.

IMPACTS OF RESIDUAL CONTAMINATION ON BENEFICIAL USES

There are no known immediate impacts to the groundwater that affect current beneficial use, although the immediate site area is within the "Zone A" designation by Water Board "East Bay Plain Groundwater Basin Beneficial Use Evaluation Report" (Water Board, 1999). The Zone A designation calls the groundwater a "significant drinking water resource."

The nearest surface water body is Glen Echo Creek, a northeast-southwest trending creek located approximately 1,500 feet northwest to west of the subject property where it becomes culverted prior to emptying into Lake Merritt (located about ½ mile south-southwest of the site).

4.0 SUMMARY, CONCLUSIONS, OPINION, AND RECOMMENDATIONS

SUMMARY AND CONCLUSIONS

The summary and conclusions presented in this section are based wholly on the data delineated in the body of this report.

- One 1,000-gallon heating oil UST was removed from the site. All UST removal and confirmation sampling activities were conducted in accordance with local agency requirements; the UST removal excavation was backfilled with clean, imported Class II baserock; compaction was certified to City of Oakland specifications; and the sidewalk and landscaping were restored.
- Residual contamination in soil was detected below regulatory ESLs in both confirmation soil samples collected beneath the former UST.
- Contaminated soil was removed to a depth of approximately 15 feet bgs, the maximum extent possible given the site constraints.
- The primary source (UST) and secondary source (contaminated soil) have been remediated to the extent that was practical. A pod of hydrocarbon-impacted soil, estimated at 10 to 20 cubic yards, remains at the site; it is located beneath the footprint of the UST between 15 and 21 feet bgs, and could not be directly accessed without disconnecting and temporarily rerouting existing overhead communication and electrical services to many of the neighborhood residences and utilizing larger excavation equipment.
- Groundwater was not encountered during this investigation; however, during the April 2007 investigation, visible "floating fuel product" was observed and 2,400 mg/L of TEHd was detected in groundwater collected from 21 feet bgs immediately below the fillport end of the UST.
- Shallow groundwater may continue to be degraded by the remaining residual soil contamination by desorption from soil into groundwater; however, the soil sample data (with the exception of one sample showing 15,000 mg/kg of TEHd collected during the 2006 Clearwater Group investigation) suggests that the majority of hydrocarbon contamination has passed through the soil to the underlying groundwater. The high TEHd detection appears anomalous, as evidenced by a total of four other soil samples that were collected in an area within 2 feet of this sample

during this and the previous two boring investigations, which showed TEHd ranging from 2.7 to 100 mg/kg.

- Remediating the residual soil would require the application of an in-situ method, such as soil vapor extraction, and remediating the existing groundwater contamination would also require groundwater extraction.
- The likelihood of groundwater impacts to beneficial use in this area appears to be negligible.
- The case is considered by the lead agency (ACEH) to be an active fuel leak case.

OPINION AND RECOMMENDATIONS

- Based on previously documented groundwater impact from the UST, and discussions with ACEH, an effort must be made to recover the documented high concentrations of dissolved—and possibly free-floating—product that appears to be in a very limited zone. SES recommends preparing a workplan for ACEH approval that will propose one temporary extraction point to remove the practically recoverable groundwater contamination.
- The available data suggest that further investigation of contaminated soil and/or soil remediation is not practical.
- We recommend contacting the Oakland Fire Department to confirm its receipt of this report.
- We recommend following up with the ACEH to confirm its receipt of this report and any subsequent workplan.
- SES recommends completing the Trust application for acceptance into the California Petroleum UST Cleanup Fund Reimbursement Program and once accepted, submitting a cost reimbursement request to cover the non-UST removal related environmental costs incurred to date.

5.0 REFERENCESS

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Clearwater Group, 2006. Interim Underground Storage Tank Investigation Report, 385-387 Orange Street, Oakland, California. March 14.

Lawrence Livermore National Laboratory, 1995. California Leaking Underground Fuel Tank Historical Case Analyses (UCRL-AR-121762).

Regional Water Quality Control Board, San Francisco Bay Region (Water Board), 1999. East Bay Plains Beneficial Use Study, San Francisco Bay. June 15.

Regional Water Quality Control Board, San Francisco Bay Region (Water Board), 2006. Environmental Screening Levels for shallow soils and groundwater for residential or commercial areas where groundwater is a potential drinking water source. November 6.

Stellar Environmental solutions, Inc., 2007. Soil and Groundwater Investigation Related to an Existing Heating Oil UST, 387 Orange Street, Oakland, California (Fuel Leak Case No. RO0002921). May 31

Unidocs, 2006. UST System and Sump Closure Guidelines. November 8.

U.S. Geological Survey (USGS), 1959. Oakland West 7.5-minute Quadrangle, 1:24000 scale, photorevised 1959.

6.0 LIMITATIONS

This report has been prepared for the exclusive use of the property owners, the Estate of David Ulibarri, their authorized representatives, and the regulators. No reliance on this report shall be made by anyone other than the client and regulators for whom it was prepared.

The findings and conclusions presented in this report are based wholly on documentation provided to SES by the property owner and property owner's contractors conducting the work, and from Alameda County Health Department case files. SES did not participate in the planning or implementation of the discussed field activities. This report provides neither a certification nor guarantee that the property is free of hazardous substance contamination. This report has been prepared in accordance with generally accepted methodologies and standards of practice of the area. The SES personnel who prepared this report are qualified to conduct such work, 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 investigation and remediation completed.

APPENDIX A

UST Removal Activities
Photodocumentation

Subject: Initial uncovering of UST. Note vertical fill port	
Site: 385-397 Orange Street, Oakland, CA	
Date Taken: August 27, 2007	Project No.: SES 2007-09
Photographer: S. Bittman	Photo No.: 01

Subject: Digging to the side of the UST prior to removal	
Site: 385-397 Orange Street, Oakland, CA	
Date Taken: August 27, 2007	Project No.: SES 2007-09
Photographer: S. Bittman	Photo No.: 02

Subject: Excavated soil prior to off-haul. Note green discoloration	
Site: 385-397 Orange Street, Oakland, CA	
Date Taken: August 27, 2007	Project No.: SES 2007-09
Photographer: S. Bittman	Photo No.: 03

Subject: UST being removed from excavation	
Site: 385-397 Orange Street, Oakland, CA	
Date Taken: August 27, 2007	Project No.: SES 2007-09
Photographer: S. Bittman	Photo No.: 04

Subject: Excavation bottom at 15 feet bgs	
Site: 385-397 Orange Street, Oakland, CA	
Date Taken: August 27, 2007	Project No.: SES 2007-09
Photographer: S. Bittman	Photo No.: 05

Subject: Class II baserock being placed in excavation	
Site: 385-397 Orange Street, Oakland, CA	
Date Taken: August 27, 2007	Project No.: SES 2007-09
Photographer: S. Bittman	Photo No.: 06

Subject: Compaction of baserock	
Site: 385-397 Orange Street, Oakland, CA	
Date Taken: August 27, 2007	Project No.: SES 2007-09
Photographer: S. Bittman	Photo No.: 07

Subject: Sidewalk restored	
Site: 385-397 Orange Street, Oakland, CA	
Date Taken: September 9, 2007	Project No.: SES 2007-09
Photographer: S. Bittman	Photo No.: 08

APPENDIX B

UST Removal Permits and Regulatory Agency Documentation, Certified Compaction Test

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ Yes ☒ No | HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ Yes ☒ No

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.
SIGNED _____ DATE 09/25/07

REPORT DATE: 9/13/2007 | CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Henry Pietropaoli | PHONE: (510) 644-3123 | SIGNATURE
REPRESENTING: ☐ LOCAL AGENCY ☐ REGIONAL BOARD ☒ OWNER/OPERATOR ☐ OTHER
COMPANY OR AGENCY NAME: Stellar Environmantal Solutions
ADDRESS: 2198 Sixth Street (STREET) | Berkeley (CITY) | CA (STATE) | 94710 (ZIP)

RESPONSIBLE PARTY
NAME: Estate of David Ulibarri ☐ Unknown | CONTACT PERSON: Mary Kranz | PHONE: (505) 235-0779
ADDRESS: 10106 Coronado Avenue NE (STREET) | Albequerque (CITY) | NM (STATE) | 87122 (ZIP)

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Residential Building | OPERATOR | PHONE ( )
ADDRESS: 387 Orange Street (STREET) | Oakland (CITY) | Alameda (COUNTY) | 94610 (ZIP)
CROSS STREET: Pearl Street

IMPLEMENTING AGENCIES
LOCAL AGENCY — AGENCY NAME: Oakland Fire Department | PHONE: (510) 238-2396
REGIONAL BOARD | PHONE ( )

SUBSTANCES INVOLVED
(1) NAME: Heating Oil | QUANTITY LOST (GALLONS) ☒ Unknown
(2) ☐ Unknown

DISCOVERY/ABATEMENT
DATE DISCOVERED: 3/14/2006 | HOW DISCOVERED: ☐ Tank Test ☐ Tank Removal ☐ Nuisance Conditions ☐ Inventory Control ☒ Subsurface Monitoring ☐ Other
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☒ Remove Contents ☒ Close Tank ☐ Repair Tank ☐ Change Procedure ☐ Replace Tank ☐ Other ☐ Repair Piping

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☒ Tank Leak ☒ Piping Leak ☐ Unknown ☐ Other
CAUSE(S): ☐ Overfill ☒ Corrosion ☐ Rupture/Failure ☐ Unknown ☐ Spill ☐ Other

CASE TYPE
CHECK ONE ONLY: ☐ Undetermined ☐ Soil Only ☒ Groundwater ☐ Drinking Water – (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY
☐ No Action Taken
☐ Leak Being Confirmed
☐ Remediation Plan
☐ Preliminary Site Assessment Workplan Submitted
☒ Preliminary Site Assessment Underway
☐ Case Closed (Cleanup Completed or Unnecessary)
☐ Pollution Characterization
☐ Post Cleanup Monitoring in Progress
☐ Cleanup Underway

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S)
☐ Cap Site (CD)
☐ Contamination Barrier (CB)
☐ Vacuum Extract (VE)
☒ Excavate & Dispose (ED)
☐ Excavate & Treat (ET)
☐ No Action Required (NA)
☐ Remove Free Product (FP)
☐ Pump & Treat Groundwater (GT)
☐ Treatment At Hookup (HU)
☐ Enhanced Bio Degradation (IT)
☐ Replace Supply (RS)
☐ Vent Soil (VS)
☐ Other

COMMENTS
One 1,000 gallon heating ust removed. Impacted soil from tank excavation bottom was excavated to 15 feet and disposed. Soil sampes from excavation bottom contained up to 85 ppm TEHd, 8.8 ppm TVHg, and 110 ppm TVHmo. Groundwater is known to be affected from samples collected via adjacent borings before tank was removed. Monitoring/pump & treat needed.

OAKLAND FIRE DEPARTMENT, OES
UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT

Site Address: 385-387 Orange St.	Name of Facility: Mary Kranz Property
Inspector: Keith Matthews	Contact on site: Steve Bottman
Date and Time of Arrival: 8/27/07; 27	Contractor/Consultant: Stelter Environmental

General Requirements	Yes	No	N/A
Approved closure plan on site.	X		X KM
Changes to approved plan noted.	X		
Residuals properly stored/transported.	X		
Receipt for adequate dry ice noted.	X		

General Requirements	Yes	No	N/A
Site Safety Plan properly signed.	X		
40B:C fire extinguisher on site.	X		
"No Smoking" signs posted.	X		
Gas detector challenged by inspector.	X		

Tank Observations	T #1	T #2	T #3	T #4
Tank Capacity (gallons)				
Material last stored	Ht oil			
Dry ice used (pounds)	20#			
Combustible gas concentration as %LEL. *(Note time & sampling point)*				
(1)	0			
(2)				
(3)				
Oxygen concentration as % volume. *(Note time &sampling point.)*				
(1)	2.8			
(2)				
(3)				
Tank Material				
Wrapping/Coating, if any				
Obvious holes?				

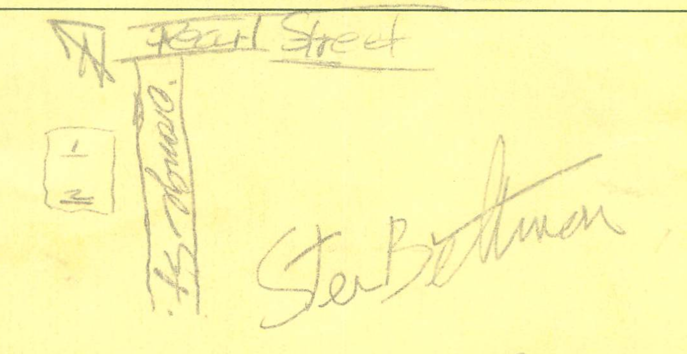
Tank Observations	T #1	T #2	T #3	T #4
Obvious corrosion?	yes			
Obvious odors from tank?	yes			
Seams intact?	yes			
Tank bed backfill material	yes			
Obvious discoloration?	yes			
Obvious odors ex tank bed?	yes			
Water in excavation?	No			
Sheen/product on water?	NA			
Tank tagged by transporter?	No			
Tank wrapped for transport?	No			
Tank plugged w/ vent cap?	No			
Date/time tank hauled off?	15:00 27Aug07			
No. of soil samples taken?	2			
Depth of soil samples (ft. bgs)	15'			

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?	X		
Obvious holes on pipes?		X	
Obvious odors from pipes?		X	
Obvious soil discoloration in piping trench?		X	
Obvious odors from piping trench?		X	
Water in piping trench?			X
Number & depth of soil samples from piping trench?		N/A	
Number & depth of water samples from piping trench?		N/A	

General Observations	Yes	No	N/A
Leak from any tank suspected?	X		
"Leak Report" form given to the operator?		X	
Obviously contaminated soil excavated?	X		
Soil stockpile sampled?		X	
Stockpile lined AND covered?			X
Water in excavation sampled?			X
Number/depth of water samples taken?	0		
All samples properly preserved for transport?	N/A		

Additional Observations	Yes	No	N/A
Soil/water sampling protocols acceptable?	X		
Sampling "chain of custody" noted?	X		
Tank pit filled in or covered?	X		
Tank pit fenced or barricaded?			X
Transporter a registered HW hauler?	X		
Uniform HW Manifest completed?	X		
Contractor/Consultant reminded of complete UST Removal Report due within 30 days?	X		
Date/Time removal/closure operations completed?			
OT hours or additional charges due from contractor?			

SITE & SAMPLING DIAGRAM



Notes/Comments: Top of Tank was 9' BGS; Bottom of Tank @ 14'; 2 Soil Samples taken w/i 1st 2' of native... ACO Health is aware of A release currently under characterization - As Soil report completed given ACO prior knowledge the release. ... was hauled away as Haz waste.

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation.

Job Site 387 ORANGE ST Parcel# 010 -0794-006-00 Appl# X0700833

Descr tank removal between two parcels: 385/387 Orange. Block s/w, Permit Issued 08/15/07
and traffic lane per approved TCP and reserve parking. Note:
two parking spaces no fee: reference Excavation permits
Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

	Applcnt	Phone#	Lic#	--License Classes--
Owner	LUELLA PENSERGA,MICHAEL RABANA	(415)377-8558		
Contractor	SPEELMAN EXCAVATION X	(209)599-1656	734167 A	C12 C21
Arch/Engr				
Agent	STELLAR ENVIRONMENTAL/S.BITTMA	(510)612-8751		
Applic Addr	1648 FAIRWAY OAKS CT. RIPON CA, 95366			

$416.55 TOTAL FEES PAID AT ISSUANCE

$63.00	Applic	$300.00	Permit
$.00	Process	$34.49	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$19.06	Tech Enh

JOB SITE

ADDRESS:

DIST:

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation.

Job Site: 385 ORANGE ST Parcel# 010 -0794-007-00 Appl# X0700832

Descr: tank removal between two parcels: 385/387 Orange. Block s/w, Permit Issued 08/15/07
and traffic lane per approved TCP and reserve parking. Note:
two parking spaces no fee: reference Excavation permits
Work Type: EXCAVATION-PRIVATE P

USA #: Util Co. Job #: Acctg#:
Util Fund #:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	GREENWOOD, GORDON & NINA				
Contractor	SPEELMAN EXCAVATION	X	(209)599-1656	734167 A	C12 C21
Arch/Engr					
Agent	STELLAR ENVIRONMENTAL/S BITTMA		(510)612-8751		
Applic Addr	1648 FAIRWAY OAKS CT, RIPON CA, 95366				

$416.55 TOTAL FEES PAID AT ISSUANCE

$63.00	Applic	$300.00	Permit
$.00	Process	$34.49	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$19.06	Tech Enh

JOB SITE

ADDRESS:

DIST:

Date: 08/15/07 Amt Paid: $1,151.76

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation.

Job Site 385 ORANGE ST Parcel# 010 -0794-007-00 Appl# OB070563

tank removal. Block s/w, and traffic lane per approved TCP and reserve parking. Post 72 hours prior. Note: two parking spaces no fee: reference Excavation permits

Permit Issued 08/15/07

TANK REMOVAL

Nbr of days: 2 Linear feet: 200
Effective: 08/27/07 Expiration: 08/28/08

SHORT TERM NON-METERED

		Applcnt	Phone#	Lic#	--License Classes--
Owner	GREENWOOD, GORDON & NINA				
Contractor	SPEELMAN EXCAVATION	X	(209)599-1656	734167:A	C12 C21
Arch/Engr					
Agent	STELLAR ENVIRONMENTAL/S BITTMA		(510)612-8751		
Applic Addr	1648 FAIRWAY OAKS CT, RIPON CA, 95366				

$358.60	TOTAL FEES PAID AT ISSUANCE		
$63.00	Applic	$249.50	Permit
$.00	Process	$29.69	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$16.41	Tech Enh

ADDRESS:

JOB SITE

DIST:

TCP needs to be approved by Transportation Services every 30 days or whenever deviated from the previously approved plan.

Applicant: _____ _____

Issued by: _____ ✓

CITY OF OAKLAND

PUBLIC WORKS AGENCY • 250 FRANK H. OGAWA PLAZA • SUITE 4344 • OAKLAND, CALIFORNIA 94612-2033
Transportation Services Division
Office (510) 238-3466
FAX (510) 238-7415
TDD (510) 839-6451

Traffic Engineering Services Analysis Fee Invoice

Date: August 13, 2007

TSD Invoice # : 07-0159

To: Henry Pietropaoli
Company: Stellar Environmental Solutions
Address: 2198 Sixth Street, Berkeley, CA 94710
Phone: 510-644-3859

Created/Received By: Joe Watson

Location	Description of Work	Project Name / Permit #	# of Hours *
385-387 Orange Street	Sidewalk Closure		1
		Total Hours	1
		TSD Service Rate	$ 100.00
		Total Fee	$ 100.00

* - minimum 1 hour service

FOR CITY USE ONLY	
Cost Center No.	W659
Organization No.	30262
Account No.	45119
Fund No.	1750

I:\Traffic\obstruction_permit\Working Invoices\2004\TSD-07-0159.xls

Cc: Rosalie

SPECIAL PROVISION 7-10.1 TRAFFIC REQUIREMENTS

Project Name: _____
Project Number: TSD-07-0159
Reviewed By: J.Watson
Date: 8/13/2007
Permit good from 8/27/2007
to 8/28/2007

ADD NEW SUBSECTION TO READ:
SP 7-10.1.4 Vehicular Traffic

08070563

Attention is directed to Section 7-10, Public Convenience and Safety, of the City of Oakland Standard Specification for Public Works Construction, 2000 Edition (Include this paragraph for p-jobs, excavation permits or obstruction permits).

The Contractor shall conduct its work in such a manner as to provide public convenience and safety and according to the provisions in this subsection. The provisions shall not be modified or altered without written approval from the Engineer.

Standard traffic control devices shall be placed at the construction zone according to the latest edition of the Work Area Traffic Control Handbook or Caltrans Traffic Manual, Chapter 5 – "Traffic Controls for Construction and Maintenance Work Zone," or as directed by the Engineer.

All trenches and excavations in any public street or roadway shall be back filled and opened to traffic, or covered with suitable steel plates securely placed and opened to traffic at all times except during actual construction operations unless otherwise permitted by the Engineer.

Each section of work shall be completed or temporarily paved and open to traffic in not more than 5 days after commencing work unless otherwise permitted in writing by the Engineer.

Where construction encroaches into the sidewalk area, a minimum of 5 ½ feet of unobstructed sidewalk shall be maintained at all times for pedestrian use. Pedestrian barricades, shelter, and detour signs per Caltrans standards may be required.

The contractor shall conduct its operation in such a manner as to leave the following traffic lanes unobstructed and in a condition satisfactory for vehicular travel during the Obstruction Period. At all times traffic lanes will be restricted and reopened to travel. Emergency access shall be provided at all times.

Street Name Limits	Obstruction Period	North Bound	South Bound	East Bound	West Bound
Orange Street between Pearl Street and Perkins Street	Mon. – Fri. 8am – 4pm		N/A	N/A	Sidewalk Closure

The Contractor Shall Also Include all check item:

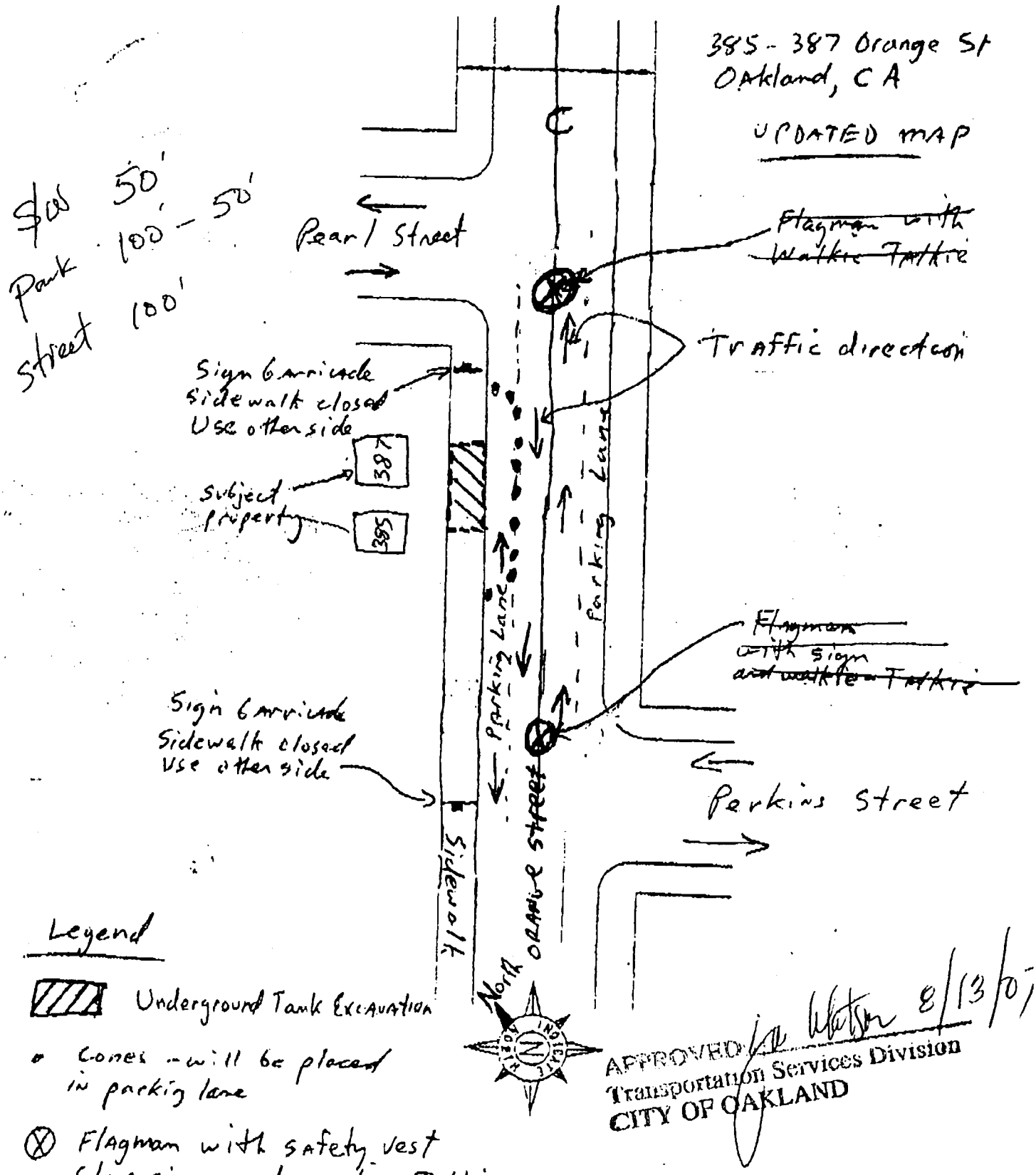
1. ☐ Design a construction traffic control plan and submit (2) copies to the Engineer for approval prior to starting any work.
2. ☒ Replace all signs, pavement markings, and traffic detector loops damaged or removed due to construction within 3 days of completion of work or the final pavement lift.
3. ☒ Provide advance notice to Oakland Police at (510) 615-5874 (24-hrs) and Oakland Fire at (510) 238-3331 (2-rhs) when a single lane of traffic or less is provided on any street.
4. ☒ Provide 72-hour advance notice to AC Transit at (510) 891-4909 when affecting a bus stop.
5. ☒ For Caltrans roadways, ramps, or maintained facilities, the Contractor shall obtain appropriate permits and notify the Traffic Management Center 24 hours in advance of any work.
6. ☐ Flagger control is required. Certified Flagger is required.
7. ☐ Pedestrian walkway by K-rail, Canopy or Plywood is required. (See detour plan)
8. ☒ Pedestrian traffic shall be maintained and guided through the project at all times.
9. ☒ Provide advance notice to Business and Residence within 72-hours.
10. ☒ Allow all traffic movement at Intersection.

Nothing specified herein shall prohibit emergency work and/or repair necessary to ensure public health and safety.

TCP

385 - 387 Orange St
Oakland, CA

UPDATED MAP



SPECIAL PROVISION 7-10.1 TRAFFIC REQUIREMENTS

Project Name: _____
Project Number: TSD-07-0159
Reviewed By: J.Watson
Date: 8/13/2007
Permit good from 8/27/2007
to 8/28/2007

OB070563

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4. ☒ Provide 72-hour advance notice to AC Transit at (510) 891-4909 when affecting a bus stop.
5. ☒ For Caltrans roadways, ramps, or maintained facilities, the Contractor shall obtain appropriate permits and notify the Traffic Management Center 24 hours in advance of any work.
6. ☐ Flagger control is required. Certified Flagger is required.
7. ☐ Pedestrian walkway by K-rail, Canopy or Plywood is required. (See detour plan)
8. ☒ Pedestrian traffic shall be maintained and guided through the project at all times.
9. ☒ Provide advance notice to Business and Residence within 72-hours.
10. ☒ Allow all traffic movement at intersection.

Nothing specified herein shall prohibit emergency work and/or repair necessary to ensure public health and safety.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form
Regulation 8 Rule 40

REMOVAL OF UNDERGROUND STORAGE TANKS *OR* TREATMENT OF CONTAMINATED SOIL

SITE OF ACTIVITY

Site Address: 385/387 Orange St | **City & Zip:** Oakland 94610 | **Site#:**

Specific Location of Project within Address: Sidewalk between Buildings

Owner/Operator: Ms. Mary Kranz

Check any that apply (400 numbers refer to regulation section requiring reporting):

- [X] Tank Removal or ~~Replacement~~ *(401)* ~~to~~ Heating oil
- [X] Contaminated Soil Excavation and Removal *(402)*
- [ ] Aeration of Soil < 50 ppmw organic content, but does not meet Section 118 Exemption *(403)*
- [ ] Section 114 Exempt; Date Pipeline Leak ***Started:*** _____ Vol. Of Soil: _____ *(403)*
- [ ] Section 115 Exempt; Date Contamination Unrelated to UST Activities ***Discovered:*** _____ *(405)*

If only Tank Removal is selected, attach results showing soil is not contaminated

CONTRACTOR INFORMATION

Name: Speelman Construction | **Site Contact:** Steve Bittman | **Phone:** 510 612 8751

Address: Stellar Environmental Solution - 2198 Sixth St #201 Berkeley 94710

TANK REMOVAL *(Section 401)*

Scheduled Start Date: Aug 27, 2007 | **Number and Size of Tank(s):** one 880 gal Heating oil

Explain Methods of:

Piping drainage or flushing *(310.1)* will gravity drain pipes - abandon in place

Liquid and sludge removal *(310.2)* _____

Vapor removal *(310.3)* **[Check One]** [ ] Water Displacement [X] Vapor Freeing* [X] Ventilation*

* Emission controls required for vapor freeing or ventilation if tank size greater than 250 gallons.

COMPLETE INFORMATION BELOW OR ATTACH SAMPLE RESULTS SHOWING SOIL IS UNCONTAMINATED (310.4)

CONTAMINATED SOIL EXCAVATION AND REMOVAL *(Section 402)*

Scheduled Start Date: Aug 27, 2007 | **Scheduled Completion Date:** Aug 28, 2007

Purpose of Excavation: remove limited volume of affected soil, if any

Quantity of Soil: < 50 yds³ **Organic Content & Type:** _____

Methods used to quantify and analyze soil: TPH as heating oil, MTBEX

Method of Stockpile Control *(304-306)*

[ ] Water Spray [X] Covered [ ] Vapor Suppressant (List Material Used): will be removed same day in Trucked bin.

Method of Site Closure *(306)*

[X] Backfilled [X] Contaminated Soil Removed

[ ] Onsite Treatment (Describe): _____ A/C or P/O #: _____

Loaded Trucks Covered? *(306.2)* [ ] Yes [ ] No

AERATION OF SOIL < 50 PPMW ORGANIC CONTENT *(Section 403)*

You must submit a Permit Application and Risk Screening Analysis *(Forms will be sent to you)*

FOR BAAQMD USE ONLY

Fax/PM Date:	By:	Disp to I#:	Area:	Date:	By:
Inv Req Date:	By:	Fwd to Supv.		Date:	By:

See Page Two to Complete This Form

OTHER PUBLIC AGENCY CONTACTED (Fire District, Hazardous Materials, City or County)?		
Agency Name: Oakland Fire Department	Contact Name: Keith Matthews	
Address: 250 Frank Ogawa Plaza Oakland CA		Phone: 510 755-5800

EMERGENCY REMOVAL ORDER APPLICABLE?		
Agency Name:	Contact Name:	
Address:		Phone:

GENERAL INFORMATION

- This notification form shall be used to notify the BAAQMD of any projects subject to the reporting requirements in Regulation 8, Rule 40, Sections 401 through 405. Notifications may be faxed to (415) 928-0338 or mailed to the address listed at the bottom of this form.
- An invoice for payment will be sent to the person listed under "Contractor Information" as the person responsible, unless the project is exempt from fee payment (see next item).
- See "Frequently Asked Questions" (FAQ) for definition of projects, change procedures, permit requirements, emergency conditions, project exemptions, and fee exemptions. For any questions not answered in the FAQ, contact the Compliance Assistance Counselor at (415) 749-4999.

INSTRUCTIONS

- **SITE OF ACTIVITY:** Give the site street address and indicate if it has any existing BAAQMD site number, for either a plant or GDF. Identify the specific project location if the site contains more than one building. Indicate all applicable activity types by checking appropriate boxes. For reporting requirements under Sections 401 through 403, additional information is required, as below.
- **CONTRACTOR INFORMATION:** Identify the contractor that is responsible for performing the work at the site location listed. This contractor is also responsible for payment of the applicable notification fee, if the project is not exempt.
- **SECTION 401 - TANK REMOVAL/REPLACEMENT:** All soils disturbed and/or excavated as part of the tank removal shall be subject to the requirements of Sections 304 through 306, unless the soil has been determined not to be contaminated by measurement of organic content using the procedures in Sections 601 and 602. Complete requirements for Section 402 or submit sample results showing that the soil *is not* contaminated.
- **SECTION 402 - CONTAMINATED SOIL EXCAVATION AND REMOVAL:**
  - Be as accurate as possible for the Scheduled Start and Completion Dates. Specific requirements apply for excavation projects triggered within either 45 or 90 days (Reg. 8-40-306.4) and Authority to Construct requirements for projects lasting longer than three months (Reg. 2-1-128.16).
  - If a vapor suppressant is used, attach a product data sheet or MSDS.
  - If Method of Site Closure used is Onsite Treatment, describe specific method, (e.g., bioremediation, vapor extraction, air sparging, thermal desorption, etc.).
  - If Onsite Treatment is used, indicate whether an Authority to Construct was obtained by providing the Application No. or attach copy of BAAQMD Certification of Exemption.
- **SECTION 403 – AERATION OF SOIL < 50 PPMW ORGANIC CONTENT:** Section 301 exempts from control the aeration of soil containing less than 50 ppmw of organic compounds, but Section 403 still requires reporting of **ANY** soil aeration. If such a project does not meet the exemption criteria of Section 118, then a Permit Application and Risk Screening Analysis must be submitted.
- **EMERGENCY REMOVAL INFORMATION (IF APPLICABLE):** The rule defines an emergency tank removal or excavation of contaminated soil as "carried out pursuant to an order of a state or local government agency issued because the contaminated soil poses an imminent threat to public health and safety." If the project(s) meet this definition, then identify the agency that issued the order. Under Section 402 requirements, on line two, identify the purpose as indicated in the order.

Korbmacher Engineering, Inc.
Geotechnical Environmental Material Testing Special Inspection
480 Preston Court, Suite B, Livermore, CA 94550, PO Box 405, Livermore, CA 94551 925.454.9033, 925.454.9564 (Fax)

27 September 2007

Mr. Harold Speelman
Speelman Excavation
1648 Fairway Oaks Court
Ripon, California 95336

Subject: **REPORT OF EARTHWORK OBSERVATION AND TESTING**
City of Oakland - Tank Excavation Backfill
385 Orange Street
Oakland, California
Project No. JH-767

Dear Mr. Speelman:

As requested, Korbmacher Engineering, Inc. (KEI) has provided testing and observation services during earthwork operations at the subject property. Our purpose was to test the backfill for the tank excavation. Attached are the density test results for the subject project at the time they were tested.

Limitations
Our services were performed according to generally accepted engineering practices for the county area at the time this report was prepared. KEI's opinions and conclusions are based upon field observations made during KEI's period of onsite observation only, and the specific test results obtained from certain locations. KEI makes no representation, express or implied, and no warranty or guarantee is included or intended as to the professional opinion or recommendation provided. KEI does not guarantee construction, nor does KEI assume the contractor's primary responsibility to produce a completed project conforming to the project plans and specifications.

We appreciate being of service to you during the testing of earthwork materials phase of the project. If you have questions concerning this report or any of our testing services, please call at your earliest convenience.

Respectfully submitted,
KORBMACHER ENGINEERING, INC.

REGISTERED PROFESSIONAL ENGINEER BRUNO KORBMACHER C 045888 EXP. 12/31/2008 STATE OF CALIFORNIA

Bruno Korbmacher, PE

Attachments: Tables I and II

Copies to: Addressee (1)
Mr. Steve Bittman (1 - email)
Mr. Henry Pietropaoli (1- email)

TABLE I
LABORATORY TEST DATA

Soil Type	Description	Optimum Moisture, %	Maximum Dry Density, lbs/ft^3
1	IMPORT: recycle aggregate base rock, brown	10.0	128.0

TABLE II
FIELD DENSITY TEST RESULTS

Date & Test No.	Test Location	Depth or Elevation, ft	Moisture Content, %	Dry Density lbs/ft^3	Relative % Compaction	Soil Type
27 Aug 07						
1	center of excavation	-2	16.0	100.6	79	1
2	center of excavation	-1	13.2	106.9	84	1
5 Sep 07						
1	center of excavation	FSG	12.7	123.6	97	1

*Indicates failed test
FG indicates finished grade in structural areas
FSG indicates finished subgrade in pavement areas
AB indicates top of aggregate base layer for pavement section
AC indicates asphaltic concrete layer for pavement section

APPENDIX C

Waste Disposal Documentation

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
CAC002612579	1	800 321-6479	002141483 JJK

GENERATOR

5. Generator's Name and Mailing Address
MARY KRANZ
10108 CORONADO AVE
ALBUQUERQUE NM 87122
Generator's Phone: 505 342-7817

Generator's Site Address (if different than mailing address)
MARY KRANZ
385 & 387 ORANGE STREET
OAKLAND CA 94610

6. Transporter 1 Company Name
Ecology Control Industries
U.S. EPA ID Number
CAD982030173

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

8. Designated Facility Name and Site Address
Ecology Control Industries
255 Parr Boulevard
Richmond CA 94801
Facility's Phone: 510 235-1393
U.S. EPA ID Number
CAD009468392

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, Solid (EMPTY STORAGE TANK(S)	001	TP	01000	P	512		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
QTY 1 EMPTY STORAGE TANK. TANK # 33566
ECI JOB # 52T3474
WEAR PROPER PPE WHEN HANDLING. WEIGHTS AND VOLUMES ARE APPROXIMATE.

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: Mary Kranz
Signature: Mary Kranz
Month: 08 Day: 27 Year: 07

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: Vic Raymond
Signature: Vic Raymond
Month: 08 Day: 27 Year: 07
Transporter 2 Printed/Typed Name: ~~Received by designated Facility~~
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Received by designated Facility: James Wilcox James Wilcox 08/27/07
Handling code H141 Boxes 19 and 20 signed and lined out by generator representative.
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 (IF REQUIRED)

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
CAC002619579	1	(510)476-1740	00299614 4 JJK

GENERATOR

5. Generator's Name and Mailing Address: ~~Spectrum Excavation~~ 385/3876 Orange St. Oakland CA

Generator's Site Address (if different than mailing address): Mary Kranz 10106 Coronado Ave NE Albuquerque NM 87111

Generator's Phone:

6. Transporter 1 Company Name: UNI WASTE — U.S. EPA ID Number:

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

8. Designated Facility Name and Site Address: ALVISO INDEPENDENT OIL, 5002 ARCHER STREET, ALVISO CA 95002 — U.S. EPA ID Number:

Facility's Phone: (510)476-1740

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. oil water) NON-RCRA HAZARDOUS WASTE, LIQUID			40C	G	223
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

WEAR PPE ERG # 171

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: Steve Bittman — Signature: [signature] — Month: 8 — Day: 27 — Year: 07

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: Anthony Canevaro — Signature: [signature] — Month: 8 — Day: 27 — Year: 07

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.
H141			

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: [illegible] — Signature: [signature] — Month: 08 — Day: 27 — Year: 07

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801
Phone # 510-235-1393

CUSTOMER: SPEELMAN EXCAVATION **JOB NO:** 52T3474

GENERATOR: MARY KRANZ
385 & 387 ORANGE ST., OAKLAND, CA. 94610

FOR: ECOLOGY CONTROL INDUSTRIES **TANK NO.:** 33566

LOCATION: RICHMOND **DATE:** 08/28/07 **TIME:** 12:30 PM

LAST PRODUCT: FUEL OIL **TEST METHOD:** VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE : 1,500 GALLONS CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY. ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Regan Cotter — REPRESENTATIVE | TITLE | James Wilcox — INSPECTOR

170125

County Quarry Products, L.L.C.

5501 IMHOFF DRIVE • MARTINEZ, CA 94553
Phone (925) 682-0707 • Fax (925) 682-0594

SOLD TO: SPEELMAN EXCAVATION
1648 FAIRWAY OAKS CO
RIPON, CA 95366

JOB: OAKLAND

TIME	DATE	CUSTOMER	TICKET	PRODUCT	TRUCK
11:38	08/27/07	SPEELEX	170125	3/4" AB CL 2	35240

TOTALS	LOAD
1 - 19.720 TN	1

TRUCK WEIGHTS

GROSS	TARE	NET
75320 lb	35880 lb	39440 lb
37.660 Tn	17.940 Tn	19.720 Tn

WEIGHMASTER: SHARON ARNOLD

ALL WEIGHTS IN LB UNLESS OTHERWISE NOTED

REC'D BY
X _____

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

CONDITIONS

The Lessee expressly agrees to indemnify and save Lessor harmless from and against all costs, losses and claims for death or injury to persons, including employees of the Lessor, and loss, damage or injury to property including leased equipment caused for resulting, directly or indirectly, from the work covered by this order, or done by said equipment, it being expressly agreed that the leased equipment and the employees furnished therewith are under the exclusive jurisdiction, control and supervision of the Lessee.

In the event any account is not fully paid when due, the Buyer shall be liable to the Seller for all expenses reasonably incurred in collecting the balance due. Such expenses shall include attorney's fees whether or not legal proceedings are instituted, and if instituted shall include such costs, fees and expenses in both the trial and appellate proceedings.

170161

County Quarry Products, L.L.C.

5501 IMHOFF DRIVE • MARTINEZ, CA 94553
Phone (925) 682-0707 • Fax (925) 682-0594

SOLD TO: SPEELMAN EXCAVATION
1648 FAIRWAY OAKS CO
RIPON, CA 95366

JOB: OAKLAND

TIME	DATE	CUSTOMER	TICKET	PRODUCT	TRUCK
13:55	08/27/07	SPEELEX	170161	3/4" AB CL 2	11283

TOTALS	LOAD
2 - 39.420 TN	2

TRUCK WEIGHTS

GROSS	TARE	NET
73220 lb	33820 lb	39400 lb
36.610 Tn	16.910 Tn	19.700 Tn

WEIGHMASTER: SHARON ARNOLD

ALL WEIGHTS IN LB UNLESS OTHERWISE NOTED

REC'D
BY
X

WEIGHMASTER CERTIFICATE

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In the event any account is not fully paid when due, the Buyer shall be liable to the Seller for all expenses reasonably incurred in collecting the balance due. Such expenses shall include attorney's fees whether or not legal proceedings are instituted, and if instituted shall include such costs, fees and expenses in both the trial and appellate proceedings.

170185

County Quarry Products, L.L.C.

5501 IMHOFF DRIVE • MARTINEZ, CA 94553
Phone (925) 682-0707 • Fax (925) 682-0594

SOLD TO: SPEELMAN EXCAVATION
1648 FAIRWAY OAKS CO
RIPON, CA 95366

JOB: OAKLAND

TIME	DATE	CUSTOMER	TICKET	PRODUCT	TRUCK
16:06	08/27/07	SPEELEX	170185	3/4" AB CL 2	35240

TOTALS	LOAD
3 - 57.710 TN	3

TRUCK WEIGHTS		
GROSS	TARE	NET
72460 lb	35880 lb	36580 lb
36.230 Tn	17.940 Tn	18.290 Tn

WEIGHMASTER: SHARON ARNOLD

ALL WEIGHTS IN LB UNLESS OTHERWISE NOTED

REC'D BY
X _____

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

CONDITIONS

The Lessee expressly agrees to indemnify and save Lessor harmless from and against all costs, losses and claims for death or injury to persons, including employees of the Lessor, and loss, damage or injury to property including leased equipment caused for resulting, directly or indirectly, from the work covered by this order, or done by said equipment, it being expressly agreed that the leased equipment and the employees furnished therewith are under the exclusive jurisdiction, control and supervision of the Lessee.

In the event any account is not fully paid when due, the Buyer shall be liable to the Seller for all expenses reasonably incurred in collecting the balance due. Such expenses shall include attorney's fees whether or not legal proceedings are instituted, and if instituted shall include such costs, fees and expenses in both the trial and appellate proceedings

170691

County Quarry Products, L.L.C.

5501 IMHOFF DRIVE • MARTINEZ, CA 94553
Phone (925) 682-0707 • Fax (925) 682-0594

SOLD TO: SPEELMAN EXCAVATION
1648 FAIRWAY OAKS CO
RIPON, CA 95366

JOB: OAKLAND

TIME	DATE	CUSTOMER	TICKET	PRODUCT	TRUCK
12:32	08/31/07	SPEELEX	170691	3/4" AB CL 2	11283

TOTALS	LOAD
1 - 12.930 TN	1

TRUCK WEIGHTS

GROSS	TARE	NET
61680 lb	35820 lb	25860 lb
30.840 Tn	17.910 Tn	12.930 Tn

WEIGHMASTER: JD DOZIER

ALL WEIGHTS IN LB UNLESS OTHERWISE NOTED

REC'D BY
X

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

CONDITIONS

The Lessee expressly agrees to indemnify and save Lessor harmless from and against all costs, losses and claims for death or injury to persons, including employees of the Lessor, and loss, damage or injury to property including leased equipment caused for resulting, directly or indirectly, from the work covered by this order, or done by said equipment, it being expressly agreed that the leased equipment and the employees furnished therewith are under the exclusive jurisdiction, control and supervision of the Lessee.

In the event any account is not fully paid when due, the Buyer shall be liable to the Seller for all expenses reasonably incurred in collecting the balance due. Such expenses shall include attorney's fees whether or not legal proceedings are instituted, and if instituted shall include such costs, fees and expenses in both the trial and appellate proceedings.

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

MAILING ADDRESS

CITY, STATE, ZIP

PHONE

CONTACT PERSON

SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE

*

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:

- ❑ DISPOSAL
- ❑ CONSTRUCTION
- ❑ DEBRIS
- ❑ SPECIAL WASTE
- ❑ SLUDGE
- ❑ WOOD
- ❑ OTHER

GENERATING FACILITY

WASTE ACCEPTANCE NO.

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT
❑ TY-VEK ❑ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER

ADDRESS

CITY, STATE, ZIP

PHONE

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE

*

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER

END DUMP	BOTTOM DUMP	TRANSFER
❑	❑	❑

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
❑	❑	❑	❑

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE

*

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
❑ SOIL		
❑ CONSTRUCTION DEBRIS		
❑ NON-FRIABLE ASBESTOS		
❑ WOOD		
❑ ASH		
❑ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

MANIFEST #

GENERATOR COPY

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR
Mary Kruse Estate Trust
MAILING ADDRESS
[illegible]
CITY, STATE, ZIP
[illegible]
PHONE
[illegible]
CONTACT PERSON
[illegible]
SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE
* [illegible] | 8/17/07

WASTE ACCEPTANCE NO.
SWIC 0727

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT
❑ TY-VEK ❑ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
❑ DISPOSAL ❑ SLUDGE
❑ CONSTRUCTION ❑ WOOD
❑ DEBRIS ❑ OTHER
❑ SPECIAL WASTE

GENERATING FACILITY
365-387 Orange Street OAKLAND

RECEIVING FACILITY

TRANSPORTER JCT
ADDRESS 1398 Marietta St
CITY, STATE, ZIP SL CA 94577
PHONE 206 4673
SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE
* [signature] | 8/17/07

NOTES: | VEHICLE LICENSE NUMBER | TRUCK NUMBER
[illegible] | 10
JCT

END DUMP ❑ BOTTOM DUMP ❑ TRANSFER ❑
ROLL-OFF(S) ❑ FLAT-BED ❑ VAN ❑ DRUMS ❑

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE
* [signature] | 8/17/07

CUBIC YARDS
20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
❑ SOIL	20	
❑ CONSTRUCTION DEBRIS		
❑ NON-FRIABLE ASBESTOS		
❑ WOOD		
❑ ASH		
❑ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

GENERATOR COPY

MANIFEST # 53[illegible]

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

4432

NON-HAZARDOUS WASTE MANIFEST

GENERATOR
Mary Knox Estate Trust

MAILING ADDRESS
1016 Coronado Avenue Nw

CITY, STATE, ZIP
Albuquerque, NM 87122

PHONE
(505) 242-7617

CONTACT PERSON
Henry Pietrzyk

SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE
* [signature] | 8/27/07

WASTE ACCEPTANCE NO.
SWIC 07227

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
☑ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☐ HARD HAT
☐ TY-VEK ☑ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
☐ DISPOSAL ☐ SLUDGE
☐ CONSTRUCTION ☐ WOOD
☐ DEBRIS ☐ OTHER
☐ SPECIAL WASTE

GENERATING FACILITY
385-387 Orange Street OAKLAND

RECEIVING FACILITY

TRANSPORTER
BK Bobcat

ADDRESS
3105 Coronation Way Ste 1

CITY, STATE, ZIP
Redwood City, CA

PHONE
(650) 350-4743

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE
* [signature] | 8/27/07

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER
9A99197	94

BK Bobcat

END DUMP	BOTTOM DUMP	TRANSFER
☑	☐	☐

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
☐	☐	☐	☐

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE
* [signature] | 8/27/07

CUBIC YARDS
20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
☐ SOIL		
☐ CONSTRUCTION DEBRIS		
☐ NON-FRIABLE ASBESTOS		
☐ WOOD		
☐ ASH		
☐ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

GENERATOR COPY

MANIFEST # [illegible]

THIRD PARTY SIGNATURE AUTHORIZATION
for Solid Waste Disposal

Date: August 21, 2007

To Whom It May Concern:

Please be advised that the following company/individual has been appointed to work as our agent for purposes of managing waste materials that we may generate.

Name of Authorized Agent	Title
Richard Makdisi Henry Pietropaoli	Principal Senior Geologist
Name of Company	Telephone Number
Stellar Environmental Solutions, Inc.	510-644-3123

The above broker/individual is authorized to act as our authorized agent for the following purposes:

- [X] Complete and sign Generator Waste Profile Sheets.
- [X] Complete and sign Generator Waste Profile Sheet-Recertifications.
- [X] Authorize amendments to Generator Waste Profile Sheets.
- [X] Sign contracts to dispose and/or transport material.
- [X] Sign certifications necessary to comply with landfill requirements.
- [X] Sign manifests to initiate shipment to disposal facilities.

Our authorized broker/agent will notify us prior to any action stated above, and will provide us with copies of any documents bearing our name.

Name of Generator (printed)	Title
Mary Kranz	Property Owner
Name of Company Residential Property ~~385~~ 387 Orange St mk Oakland, CA 94610	Mailing Address 10106 Coronado Ave, NE Albequerque, NM 87122
Signature Mary Kranz	Telephone Number 505-342-~~7617~~ 505-235-0779 mk

ALLIED WASTE

GENERATOR WASTE PROFILE SHEET

Requested Disposal Facility: KellerCanyon and/or Forward Canyon
an Allied Waste Company

Waste Profile #
AWI Sales Rep:
Date: August 21 2007

I. Generator Information

Generator Name: Mary Kranz- Estate Trustee			
Generator Site Address: 385-387 Orange Street			
City: Oakland	County: Alameda	State: CA	Zip: 94610
State ID/Reg No: N/A	State Approval/Waste Code: N/A (if applicable)		SIC Code: N/A
Generator Mailing Address (if different): 10106 Coronado Ave, NE			
City: Albequerque	County: Alameda	State: NM	Zip: 87122
Generator Contact Name: Henry Pietropaoli for Mary Kranz			
Phone Number: 505-342-7617 or 510-644-3123		Fax Number: 510-644-3123	

IIa. Transporter Information

Transporter Name:		Contact Name:	
Transporter Address:			
City:	County:	State:	Zip:
Phone Number:	Fax Number:	State Transportation Number:	

IIb. Billing Information

Bill To: Speelman Excavation		Contact Name: Harold Speelman	
Billing Address: 1648 Fairway Oaks Court			Fax: 209-599-1657
City: Ripon	State: CA	Zip: 95366	Phone Number: 209-599-1656

III. Waste Stream Information

Name of Waste: residential heating oil contaminated soil
Process Generating Waste: soil corrective action - excavation to remove residual contaminated soil from a former underground storage tank.
Type of Waste ☐ INDUSTRIAL PROCESS WASTE or ☒ POLLUTION CONTROL WASTE
Physical State: ☒ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUID ☐ OTHER: _____:
Method of Shipment: ☒ BULK ☐ DRUM ☐ BAGGED ☐ OTHER: _____
Estimated Annual Volume: ☒ CUBIC YARDS: 50 ☐ TONS: _____ ☐ GALLONS _____ ☐ OTHER: _____
Frequency: ☒ ONE TIME ☐ DAILY ☐ WEEKLY ☐ MONTHLY ☐ OTHER:
Special Handling Instructions: none

IV. Representative Sample Certification

☐ NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	☒ YES or ☐ NO
Sample Date: 10/4/2006	Type of Sample: ☐ COMPOSITE SAMPLE ☒ GRAB SAMPLE
Laboratory: Curtis and Tompkins	Sample ID Numbers: B1-13, B4-14
Sampler's Employer: Stellar Environmental Solutions, Inc.	
Sampler's Name (printed): Henry Pietropaoli	Signature:

REV 1

ALLIED WASTE

GENERATOR WASTE PROFILE SHEET (continued)

Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components	% by Weight (range)
1. Soil	100%
2.	
3.	
4.	
5.	

Color	Odor (describe)	Free Liquids ☐ YES or ☒ NO	% Solids	pH:	Flash Point	Phenol
grey-brown	slight to no petroleum odor	Content _____%	99	4-8	≥ 140 □F	_____ppm

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and it epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes or ☒ No
Does this waste or generating process cause it to exceed OSHA exposure limits from high levels of Hydrogen Sulfide or Hydrogen Cyanide as defined in 40 CFR 261.23?	☐ Yes or ☒ No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes or ☒ No
Does this waste contain regulated concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes or ☒ No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes or ☒ No
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	☐ Yes or ☒ No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes or ☒ No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes or ☒ No
Is this waste generated at a Federal Superfund Clean Up Site?	☐ Yes or ☒ No

VI. Generator Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Allied Waste.

Richard Makdisi - Principal
Authorized Representative Name And Title (Printed)

Stellar Environmental Solutions, Inc.
Company Name

Authorized Representative Signature

August 21, 2007
Date

VII. Allied Waste Decision

☐ Approved ☐ Rejected Expiration: _____

Conditions:

_____ _____ _____
Name, Title Signature Date

APPENDIX D

Certified Analytical Laboratory Results and Chain-of-Custody Records

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD		
Matrix:	Soil	Sampled:	08/27/07
Basis:	as received	Received:	08/28/07
Diln Fac:	1.000	Analyzed:	08/31/07
Batch#:	129086		

Field ID: T-15-S
Type: SAMPLE

Lab ID: 197207-001

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	8.8 H Y	0.97	mg/Kg	EPA 8015B
Benzene	ND	4.9	ug/Kg	EPA 8021B
Toluene	ND	4.9	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.9	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.9	ug/Kg	EPA 8021B
o-Xylene	11	4.9	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	106	70-132	EPA 8015B
Bromofluorobenzene (FID)	157 *	66-138	EPA 8015B
Trifluorotoluene (PID)	107	63-142	EPA 8021B
Bromofluorobenzene (PID)	137 *	70-129	EPA 8021B

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
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 #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD		
Matrix:	Soil	Sampled:	08/27/07
Basis:	as received	Received:	08/28/07
Diln Fac:	1.000	Analyzed:	08/31/07
Batch#:	129086		

Field ID: T-15-N Lab ID: 197207-002
Type: SAMPLE

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.98	mg/Kg	EPA 8015B
Benzene	ND	4.9	ug/Kg	EPA 8021B
Toluene	ND	4.9	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.9	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.9	ug/Kg	EPA 8021B
o-Xylene	ND	4.9	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	113	70-132	EPA 8015B
Bromofluorobenzene (FID)	129	66-138	EPA 8015B
Trifluorotoluene (PID)	102	63-142	EPA 8021B
Bromofluorobenzene (PID)	125	70-129	EPA 8021B

Type: BLANK Lab ID: QC404416

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.20	mg/Kg	EPA 8015B
Benzene	ND	1.0	ug/Kg	EPA 8021B
Toluene	ND	1.0	ug/Kg	EPA 8021B
Ethylbenzene	ND	1.0	ug/Kg	EPA 8021B
m,p-Xylenes	ND	1.0	ug/Kg	EPA 8021B
o-Xylene	ND	1.0	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	104	70-132	EPA 8015B
Bromofluorobenzene (FID)	107	66-138	EPA 8015B
Trifluorotoluene (PID)	104	63-142	EPA 8021B
Bromofluorobenzene (PID)	109	70-129	EPA 8021B

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
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 #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8021B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	129086
Basis:	as received	Analyzed:	08/31/07

Type: BS Lab ID: QC404417

Analyte	Spiked	Result	%REC	Limits
Benzene	100.0	105.5	105	80-120
Toluene	100.0	103.6	104	80-120
Ethylbenzene	100.0	105.7	106	80-120
m,p-Xylenes	100.0	114.1	114	80-120
o-Xylene	100.0	111.8	112	80-120

Surrogate	%REC	Limits
Trifluorotoluene (PID)	104	63-142
Bromofluorobenzene (PID)	108	70-129

Type: BSD Lab ID: QC404418

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	50.00	48.50	97	80-120	8	20
Toluene	50.00	51.98	104	80-120	0	20
Ethylbenzene	50.00	52.29	105	80-120	1	20
m,p-Xylenes	50.00	57.13	114	80-120	0	20
o-Xylene	50.00	56.06	112	80-120	0	20

Surrogate	%REC	Limits
Trifluorotoluene (PID)	111	63-142
Bromofluorobenzene (PID)	117	70-129

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC404419	Diln Fac:	1.000
Matrix:	Soil	Batch#:	129086
Units:	mg/Kg	Analyzed:	08/31/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.925	99	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	139 *	70-132
Bromofluorobenzene (FID)	128	66-138

*= Value outside of QC limits; see narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	197290-001	Batch#:	129086
Matrix:	Soil	Sampled:	08/28/07
Units:	mg/Kg	Received:	08/30/07
Basis:	as received	Analyzed:	08/31/07

Type: MS Lab ID: QC404420

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.06353	9.804	8.541	86	36-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	141 *	70-132
Bromofluorobenzene (FID)	134	66-138

Type: MSD Lab ID: QC404421

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.901	8.736	88	36-120	1	29

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137 *	70-132
Bromofluorobenzene (FID)	130	66-138

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

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Sample Name: **197207-001,129086,tvh+btxe**
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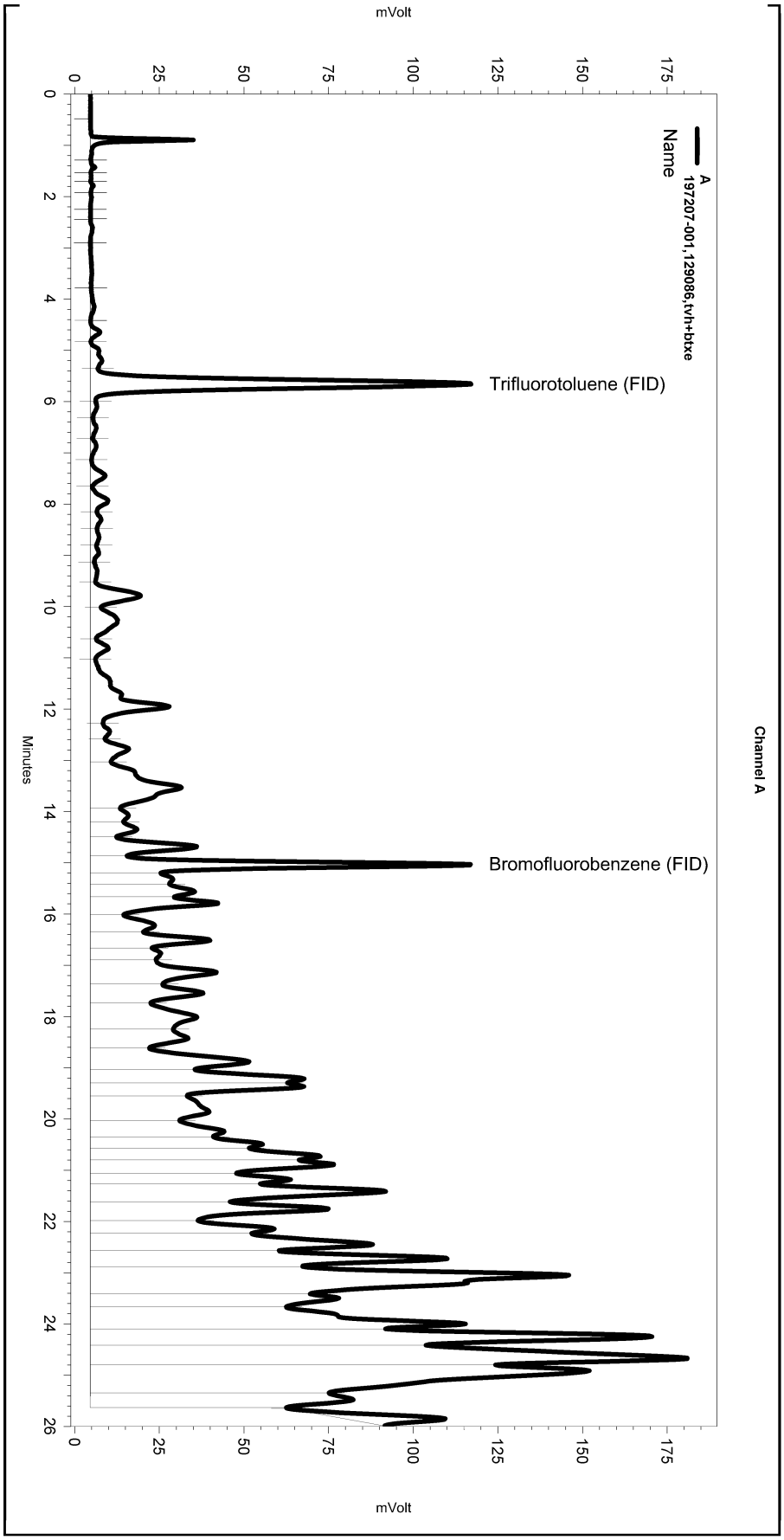
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe240.met

Software Version 3.1.7
Run Date: 8/31/2007 9:57:46 PM
Analysis Date: 9/5/2007 10:49:02 AM
Sample Amount: 1.03 Multiplier: 1.03
Vial & pH or Core ID: A



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Yes	Threshold	0	0	50

Manual Integration Fixes

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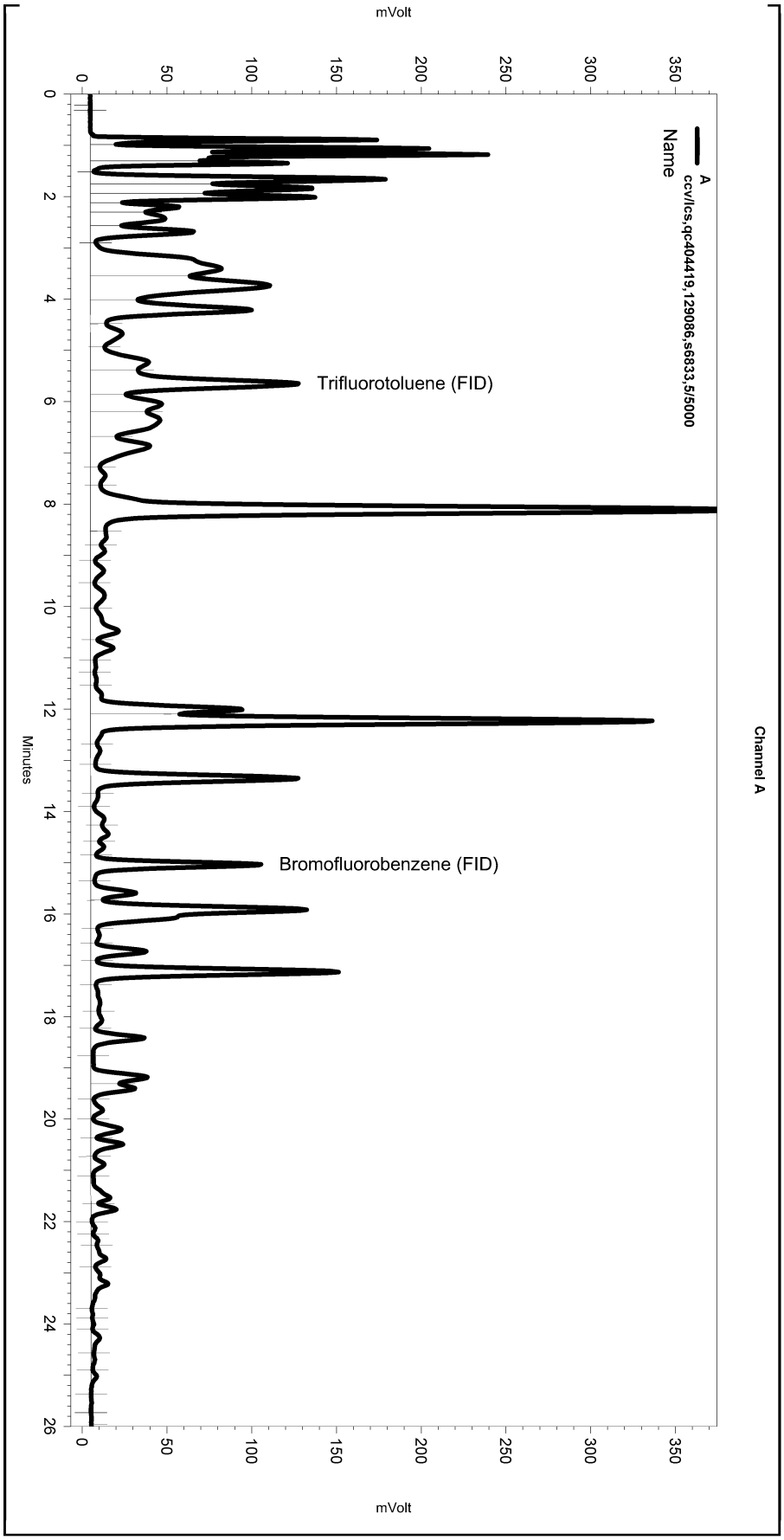
Sample Name: **ccv/lcs,qc404419,129086,s6833,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\243_004**
Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe240.met

Software Version 3.1.7
Run Date: 8/31/2007 2:16:02 PM
Analysis Date: 9/4/2007 12:56:18 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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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

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Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	08/27/07
Units:	mg/Kg	Received:	08/28/07
Basis:	as received	Prepared:	08/31/07
Batch#:	129063		

Field ID: T-15-S
Type: SAMPLE
Lab ID: 197207-001
Diln Fac: 5.000
Analyzed: 09/03/07

Analyte	Result	RL
Diesel C10-C24	85 H	5.0
Motor Oil C24-C36	110 H L	25

Surrogate	%REC	Limits
Hexacosane	96	40-127

Field ID: T-15-N
Type: SAMPLE
Lab ID: 197207-002
Diln Fac: 1.000
Analyzed: 09/04/07

Analyte	Result	RL
Diesel C10-C24	26 H	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	98	40-127

Type: BLANK
Lab ID: QC404307
Diln Fac: 1.000
Analyzed: 09/04/07

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	91	40-127

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC404308	Batch#:	129063
Matrix:	Soil	Prepared:	08/31/07
Units:	mg/Kg	Analyzed:	09/03/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.92	46.81	94	58-127

Surrogate	%REC	Limits
Hexacosane	90	40-127

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	129063
MSS Lab ID:	197104-002	Sampled:	08/23/07
Matrix:	Soil	Received:	08/23/07
Units:	mg/Kg	Prepared:	08/31/07
Basis:	as received	Analyzed:	09/03/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC404309

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.9426	49.87	41.89	82	29-147

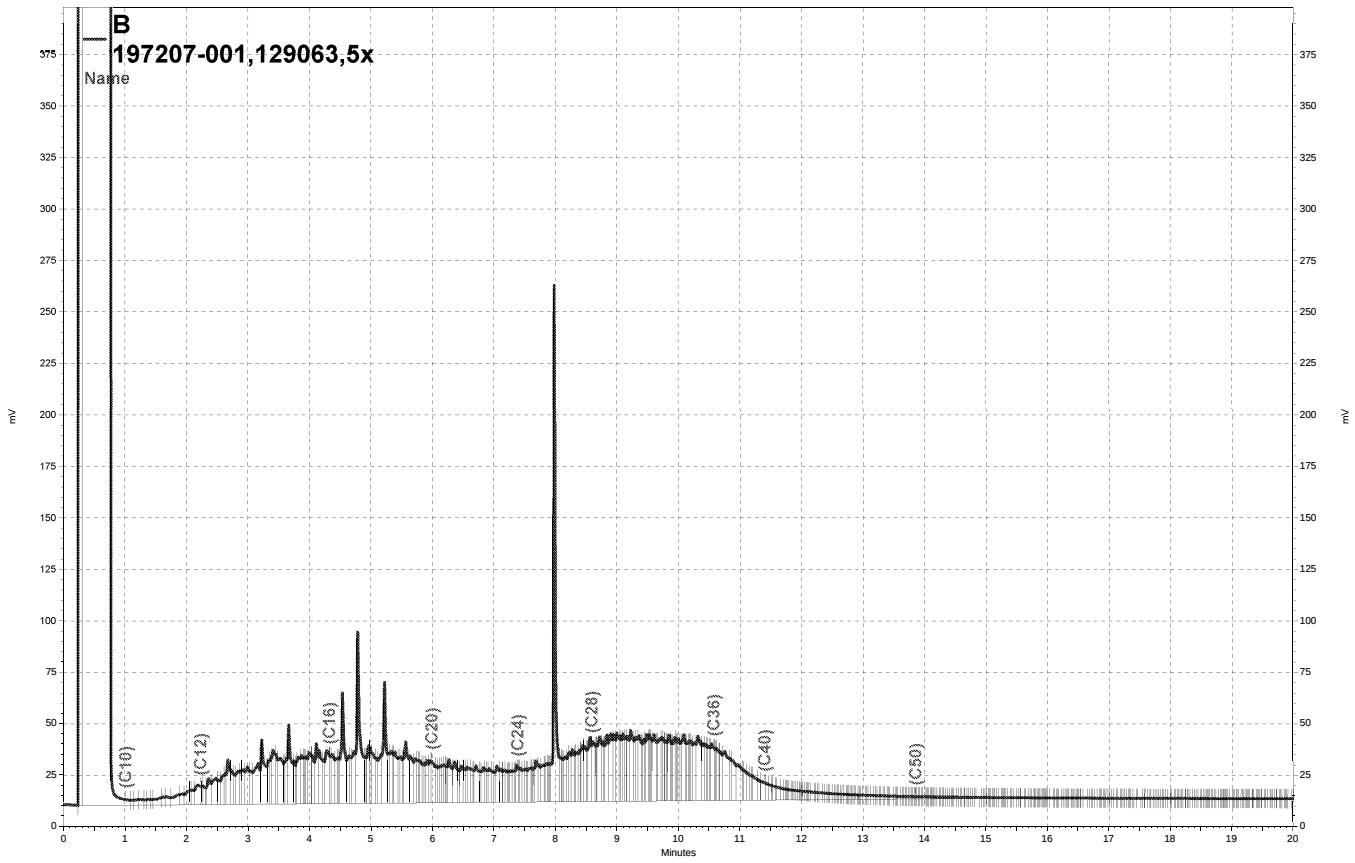
Surrogate	%REC	Limits
Hexacosane	81	40-127

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC404310

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.85	41.51	81	29-147	1	46

Surrogate	%REC	Limits
Hexacosane	79	40-127

RPD= Relative Percent Difference



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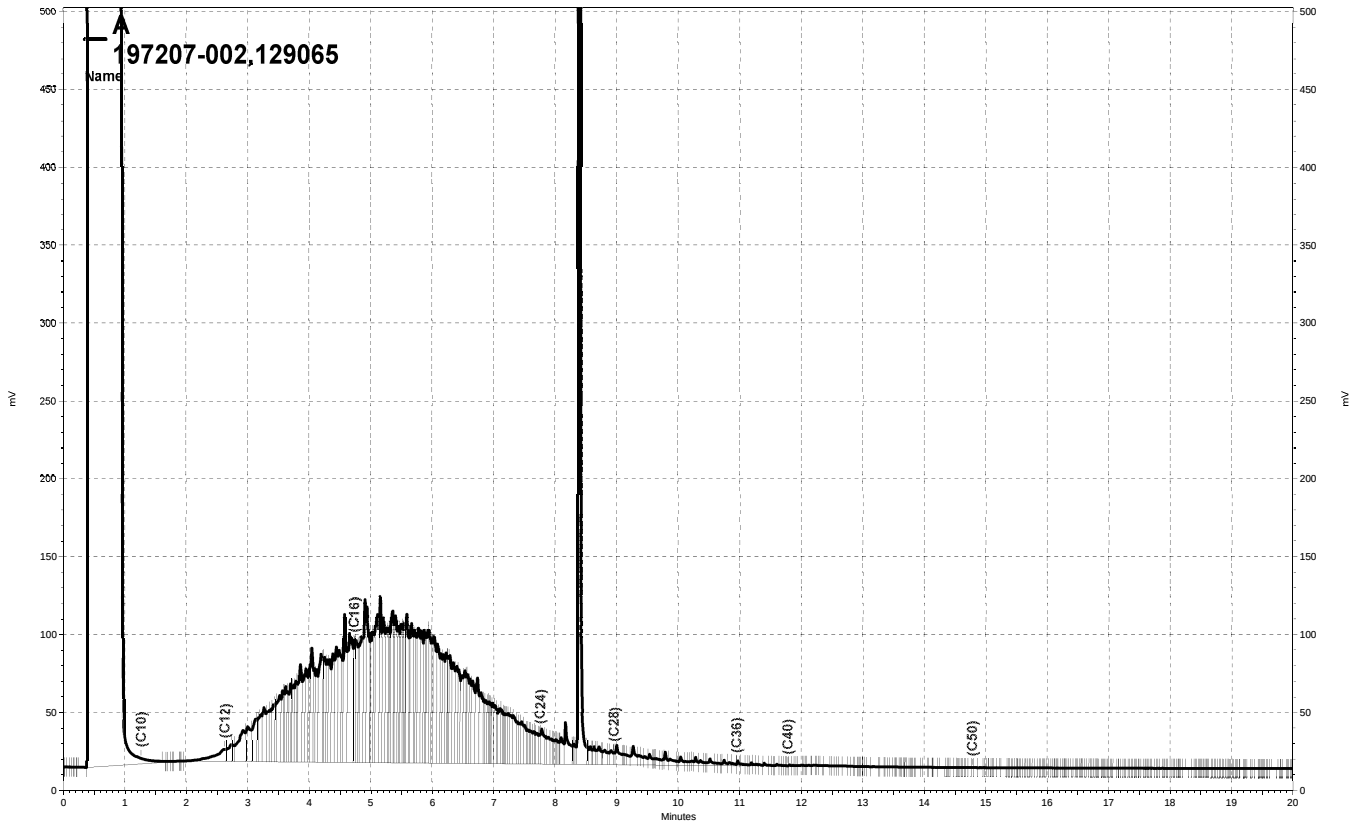

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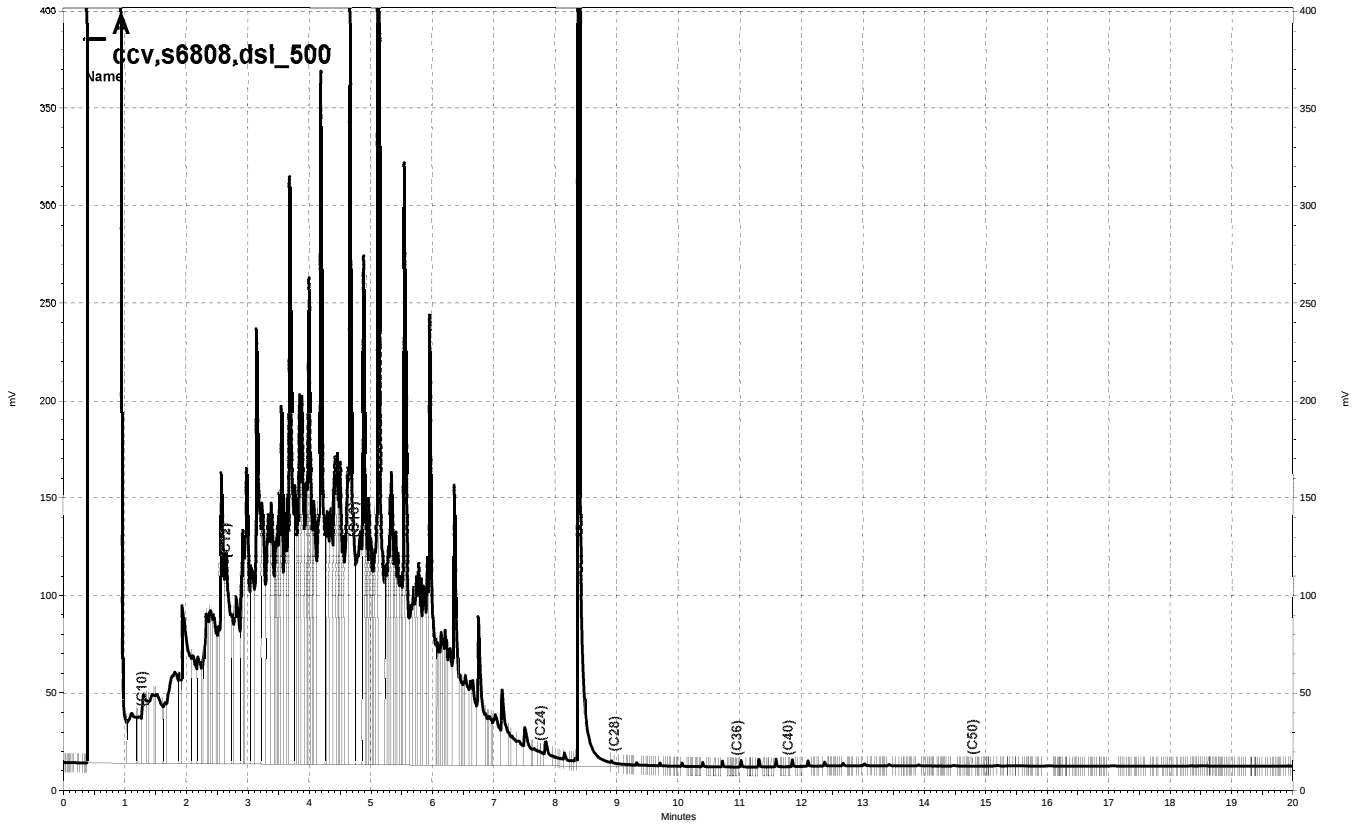

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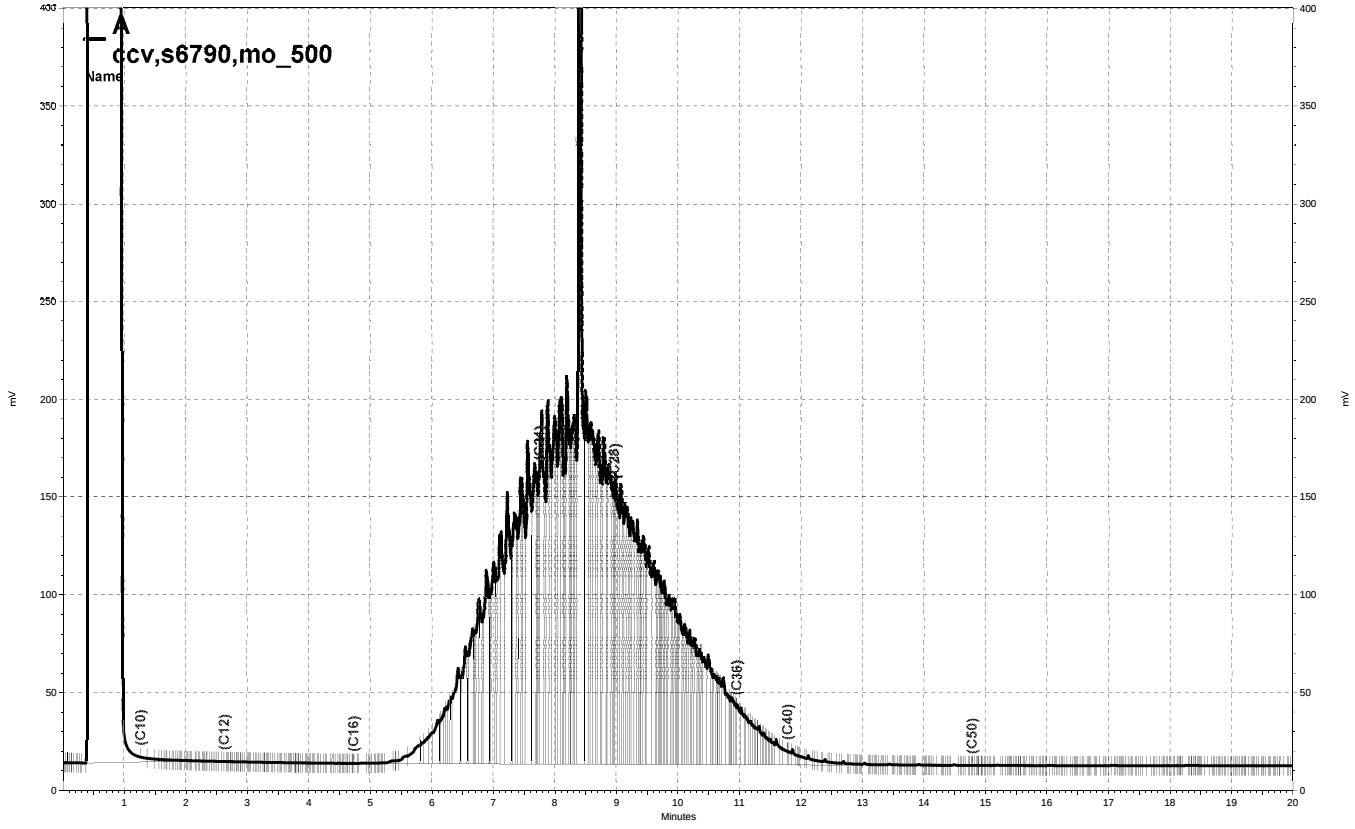

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Curtis & Tompkins, Ltd.

Lead

Lab #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	129095
Matrix:	Soil	Sampled:	08/27/07
Units:	mg/Kg	Received:	08/28/07
Basis:	as received	Prepared:	08/31/07
Diln Fac:	1.000	Analyzed:	09/04/07

Field ID	Type	Lab ID	Result	RL
T-15-S	SAMPLE	197207-001	2.4	0.15
T-15-N	SAMPLE	197207-002	4.2	0.15
	BLANK	QC404473	ND	0.15

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	197207	Location:	387 Orange Street
Client:	Stellar Environmental Solutions	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	129095
MSS Lab ID:	197233-005	Sampled:	08/27/07
Matrix:	Soil	Received:	08/28/07
Units:	mg/Kg	Prepared:	08/31/07
Basis:	as received	Analyzed:	09/04/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC404474		100.0	85.17	85	80-120		
BSD	QC404475		100.0	84.91	85	80-120	0	20
MS	QC404476	24.50	96.15	128.4	108	55-122		
MSD	QC404477		89.29	94.23	78	55-122	25	26

RPD= Relative Percent Difference

Chain of Custody Record

Lab job no. 197207
Date 8-28-07
Page 1 of 1

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

Project Owner Ulibarri Estate/Ms. Mary Krantz
Site Address 387 Orange Street
Oakland,CA

Project Name Orange Street
Project Number 2007-08

Method of Shipment Hand Delivery
Shipment No. ----------
Airbill No. ----------
Cooler No.

Project Manager Richard Makdisi
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: Total Pb	TEH-d	TVHs BTEX	Oil & Grease	Remarks
T-15-S		8/27/07	1500	S	2 - 55	yes		No		X	X	X	X	
T-15-N		8/27/07	1500	S	2 - 55					X	X	X	X	

Relinquished by:	Date	Received by:	Date	Relinquished by:	Date	Received by:	Date
Signature Steve Bittman	8/28/07	Signature	8-28-07	Signature		Signature	
Printed Steve Bittman	Time	Printed Faith Nichols	Time	Printed	Time	Printed	Time
Company Stellar Environmental	0955	Company CAT	9:55	Company		Company	

Turnaround Time: 5 Day TAT
Comments: Samples on ice

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

2000-00-01