

UNDERGROUND STORAGE TANK REMOVAL REPORT



PREPARED FOR:
CALTRANS DISTRICT 4
111 GRAND AVENUE, 12TH FLOOR
OAKLAND, CA 94612

PREPARED BY:
GEOCON CONSULTANTS, INC.
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GEOCON PROJECT NO. E8585-02-55
CALTRANS EA 04-0120M4



APRIL 2013

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By Alameda County Environmental Health at 3:40 pm, May 28, 2013



Project No. E8585-02-55
April 30, 2013

Mr. Chris Bledsoe
Caltrans – District 4
111 Grand Avenue
Oakland, California 94612

Subject: UST REMOVAL REPORT
 OAKLAND TOLL PLAZA
 OAKLAND, CALIFORNIA
 CONTRACT NO. 04A3570, EA 04-0120M4

Dear Mr. Bledsoe:

Geocon has prepared this *UST Removal Report* for the above referenced site on behalf of Caltrans - District 4 (Caltrans). The report contains details of field services and laboratory analytical results.

A copy of Caltrans' authorization letter to submit the report to the Alameda County Environmental Health Department is provided in Appendix F. Please contact the undersigned if you have any questions or comments.

Sincerely,
GEOCON CONSULTANTS, INC.

John Love, PG
Sr. Project Geologist



- (3) Addressee
(1) Donna Drogos, Alameda County Health Care Services Agency (electronic submittal)

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UST REMOVAL REPORT

1.0 INTRODUCTION

On behalf of the California Department of Transportation (Caltrans) - District 4, NRC Environmental Services, Inc. (NRC) and Geocon Consultants, Inc. (Geocon) removed one approximately 1,000-gallon, one 2,000-gallon, and one 3,000-gallon steel underground storage tanks (USTs) located at the Bay Bridge Toll Plaza area in Oakland, California (Figure 1). In addition to removing the USTs, Geocon also over-excavated and arranged for the disposal of approximately 165 tons of petroleum-impacted soil and the disposal of approximately 1,880 gallons of fuel oil, rinsate fluids, and petroleum-impacted groundwater.

This report was prepared under Caltrans Contract No. 04A3570.

1.1 Site Description

The Bay Bridge Toll Plaza area, where the USTs were located, was under demolition and renovation at the time the USTs were removed. UST #1 was approximately 340 feet west of the Toll Plaza and 50 feet south of Interstate 80, and USTs #2 and #3 were located approximately 500 west of the Toll Plaza and 8 feet south of Interstate 80. A site plan showing the UST locations relative to the former building structures is provided as Figure 2, and photographs of the USTs during the removal activities are in Appendix A.

1.2 Background

Portions of the Bay Bridge Toll Plaza area are being demolished and reconstructed in conjunction with the opening of the new Bay Bridge in 2013. As part of the demolition and renovation effort, three USTs located north and east of the former maintenance building were scheduled for removal once the maintenance building was demolished.

UST #1 located east of the former building is an approximately 3,000-gallon single-wall steel UST formerly containing gasoline. UST #2 and UST #3 are located immediately north of the former building. UST #2 is an approximately 1,000-gallon single-wall steel UST used to store fuel oil and UST #3 is an approximately 2,000-gallon single-wall steel UST used to store diesel fuel. UST #1 and UST #3 were abandoned in-place in 1996 by filling the tanks with a 2-sack cement sand slurry mix. Prior to unearthing UST#2, it was unknown whether or not this UST was abandoned in-place. Approximately 525 gallons of fuel oil was discovered in the tank after it was uncovered on

February 13, 2013.

2.0 UST REMOVALS

On February 13 to 15, 2013, Geocon and NRC removed UST #1, UST #2, and UST #3 from the Bay Bridge Toll Plaza area. Prior to the removals, Geocon obtained UST removal permits from the City of Oakland Fire Department (OFD). Copies of the permits were never issued by the OFD due to the quick turnaround time associated with acquiring the permits and removing the USTs; however, a copy of their *UST Closure/Removal Inspection Report* issued at the time the USTs were removed by OFD Inspector, Mr. Leroy Griffin, is in Appendix B.

2.1 UST #1

The top of UST #1 was buried approximately 6 feet below ground surface (see Photo 2, Appendix A). The UST was exposed by unearthing the top of the UST with an excavator. The top of the tank was then peeled back using the excavator bucket so the sand slurry inside the UST could be excavated out prior to removing from the ground.

2.1.1 UST #1 Removal

After the sand slurry was removed from UST #1, the UST was removed from the ground and the remaining slurry was emptied out of the UST. The UST was then crushed for transport and offsite recycling as scrap metal (Photo 3 and 4, Appendix A).

The sand slurry inside the UST and overburden soils were placed in 20 cubic yard soil bins for transport to a Class II landfill.

Obvious impacts to soil and groundwater surrounding the UST were observed during the removal activities (Photos 5 to 7, Appendix A). As a result, approximately 1,100-gallons of petroleum-impacted groundwater was removed from the open excavation using a vacuum truck provided by NRC prior to backfilling with drain rock and Class II aggregate base soil (Photograph 8, Appendix A). The petroleum-impacted groundwater was transported to the Riverbank Oil Transfer facility in Riverbank, California for disposal. A copy of the hazardous waste manifest for the excavation groundwater disposal is in Appendix C.

2.1.2 UST #1 Confirmation Groundwater Sample Collection, Analysis, and Results

Confirmation groundwater samples were collected from the UST #1 excavation at the direction of the OFD inspector.

A groundwater sample was collected by submerging the appropriate sample containers in groundwater accumulated in the excavation. Upon collection, the sample containers were placed in a chest cooled with ice for transport to Advanced Technology Laboratories (ATL), a State of California-certified laboratory located in Signal Hill, California.

The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and diesel fuel (TPHd) following EPA Test Method 8015B; and benzene, toluene, ethylbenzene, xylenes (BTEX), ethylene dibromide (EDB), 1,2-dichloroethane (1,2-DCA), and fuel oxygenates compounds (FOCs) following EPA Test Method 8260.

TPHg and TPHd were reported at concentrations of 2,500 micrograms per liter (ug/l) and 110,000 ug/l, respectively. Benzene was reported at a concentration of 50 ug/l and toluene, ethylbenzene, and xylenes were reported at concentrations ranging from 67 ug/l to 283 ug/l (Table 1).

FOCs methyl tertiary butyl ether (MTBE), tert-Butanol (TBA), and tert-amyl-methyl ether (TAME) were reported at concentrations of 320 ug/l, 21 ug/l, and 1.6 ug/l, respectively (Table 1).

Copies of the analytical laboratory data sheets for the groundwater sample collected from the UST #1 excavation are in Appendix D.

2.2 UST #2 and #3

After UST #2 was unearthed and discovered to contain fuel oil, NRC was summoned to the site to remove the product and triple rinse the UST. NRC removed approximately 525 gallons of fuel oil and rinsate fluids from UST #2 (Photo #9, Appendix A). The top of UST #2 was further opened with a rivet buster chisel to remove asphalt which had fallen into the UST during the removal of over burden material (see Photo #10, Appendix A).

2.2.1 UST #2 and #3 Removal

Once UST #2 was emptied and cleaned it was removed from the ground, crushed with the excavator bucket, then placed in a 40 cubic yard bin for transport and offsite recycling as scrap metal

(Photos #11 and #12, Appendix A). A copy of the hazardous waste manifest for the fuel oil and rinsate fluid disposal from UST #2 is in Appendix C.

UST #3 was removed from the ground by first peeling the top of the UST back to where sand slurry inside the UST could be excavated (Photo #13, Appendix A). Residual diesel product (estimated at 30 gallons) inside UST #3 was removed by NRC prior to removing the sand slurry (Photo #14, Appendix A). The slurry was then broken up using a pneumatic hammer attached to a backhoe (Photo #15, Appendix A), and excavated from the inside of the tank (Photo #16, Appendix A) until enough of the material was removed to facilitate the UST being hoisted out of the ground with the excavator (Photo #17, Appendix A).

Once out of the ground, the remaining sand slurry was emptied from the UST. The UST was then crushed with the excavator (Photo #18, Appendix A) and placed in a 40 cubic yard bin for transport and offsite recycling as scrap metal.

The sand slurry inside UST #3 and overburden soils covering UST #2 and UST #3 were placed in 20 cubic yard soil bins for transport to a Class II landfill for disposal.

2.2.2 UST #2 and #3 Excavation Soil and Groundwater Sample Collection, Analysis and Results

One soil sample was collected between UST #2 and #3, at the direction of the OFD inspector. The sample was collected near the bottom of the USTs at a depth of approximately 8 feet. The sample was collected using the excavator. Soil from the excavator bucket was transferred into a stainless steel sample tube. Once filled, the sample tube was capped on both ends with Teflon tape and plastic end caps, placed in a chest cooled with ice, and transported to ATL.

A grab-groundwater sample was also collected from the bottom of the south end of the UST#2 and #3 excavation, at the direction of the OFD inspector. The groundwater sample was collected by submerging the appropriate sample containers in groundwater. Upon sample collection, the sample containers were placed in a chest cooled with ice for transport to ATL.

The soil and groundwater samples collected from the UST #2 and #3 excavation were analyzed for TPHg and TPHd following EPA Test Method 8015B; and BTEX, EDB, 1,2-DCA, and FOCs following EPA Test Method 8260.

TPHg and TPHd were reported at concentrations of 320 ug/l and 19,000 ug/l for the excavation

groundwater sample. Toluene, ethylbenzene, and xylenes were also reported at concentrations ranging from 1.3 to 49 ug/l. Benzene, EDB, 1,2-DCA, and FOCs were reported as non-detect for the excavation groundwater sample (Table 1).

TPHg was reported at a concentration of 7.1 milligrams per kilogram (mg/kg) for the confirmation soil sample collected from the UST #2 and #3 excavation. All other target analytes were reported as non-detect (Table 2)

Copies of the analytical laboratory data sheets for the UST #2 and #3 excavation soil and groundwater samples are in Appendix D.

2.3 Stockpile Soil Sampling and Results

Two 4-point composite soil samples (Comp A-D and Comp E-H) were collected from the stockpiled soil generated from both UST excavation areas. The samples were analyzed for TPHg and TPHd following EPA Test Method 8015B, oil & grease following State Method 5520E/F, and California Assessment Manual (CAM) 17 metals following EPA Test Method 6020.

TPHg was reported at concentrations of 1.7 mg/kg and 260 mg/kg for stockpile samples Comp A-D and Comp E-H, respectively. TPHd and oil & grease were reported at concentrations of 47 mg/kg and 110 mg/kg for Comp A-D and 430 mg/kg and 120 mg/kg for Comp E-H (Table 3).

Toluene, ethylbenzene, and xylenes were reported for the Comp E-H soil sample at concentrations ranging from 0.64 mg/kg to 2.1 mg/kg. BTEX were reported as non-detect for the Comp A-D soil sample (Table 3).

CAM 17 metals, except chromium and lead, were reported at concentrations less than their respective total threshold limit concentrations (TTLC) and 10 times their soluble threshold limit concentrations (STLC). Chromium was reported at a concentration of 55 mg/kg for Comp E-H stockpile sample and lead was reported at a concentration of 65 mg/kg for Comp A-D. Both of these results exceeded 10 times the STLC of 5.0 milligrams per liter (mg/l) for chromium and lead. As a result, both samples were further analyzed for soluble chromium and lead following waste extraction test (WET) methodology. STLC chromium was reported at a concentration of 0.18 mg/l for soil sample Comp E-H and STLC lead was reported at 2.6 mg/l for Comp A-D, both of which are less than the chromium and lead STLC of 5.0 mg/l (Table 4).

Copies of the analytical laboratory data sheets for stockpile soil sample analysis results are in

Appendix D.

2.4 Soil and Groundwater Conditions

Soil underlying the UST#1 and UST #2/UST #3 excavation areas consisted predominantly of poorly graded, fine to medium sand with some construction debris and silty sand interspersed. Petroleum odors were noted for the overburden soils from both UST excavation areas.

Groundwater was present at approximately 8 feet at the time the USTs were removed. Groundwater in both excavation areas appeared to be impacted by petroleum, with the most severe impacts in the UST #1 excavation (Photos #19 and #20, Appendix A).

A concrete pile platform is located approximately 12 feet below ground surface which effectively serves as a concrete floor underlying the Bay Bridge Toll Plaza area. Excavation below this depth at the site is not possible.

3.0 SOIL DISPOSAL

Soil removed from each of the excavation areas was temporarily stored onsite in 12 twenty-cubic yard bins pending landfill profiling.

On February 21, 22, and 25, 2013, five soil bins were transported to the Hay Road Class II Landfill in Vacaville, California, and seven soil bins were transported to the Altamont Class II Landfill in Livermore, California for disposal.

Nearly 69 tons of soil were disposed of at the Hay Road Landfill and 96 tons at the Altamont Landfill.

Copies of the non-hazardous waste manifests and landfill weigh tickets are in Appendix E.

4.0 CONCLUSIONS AND RECOMMENDATIONS

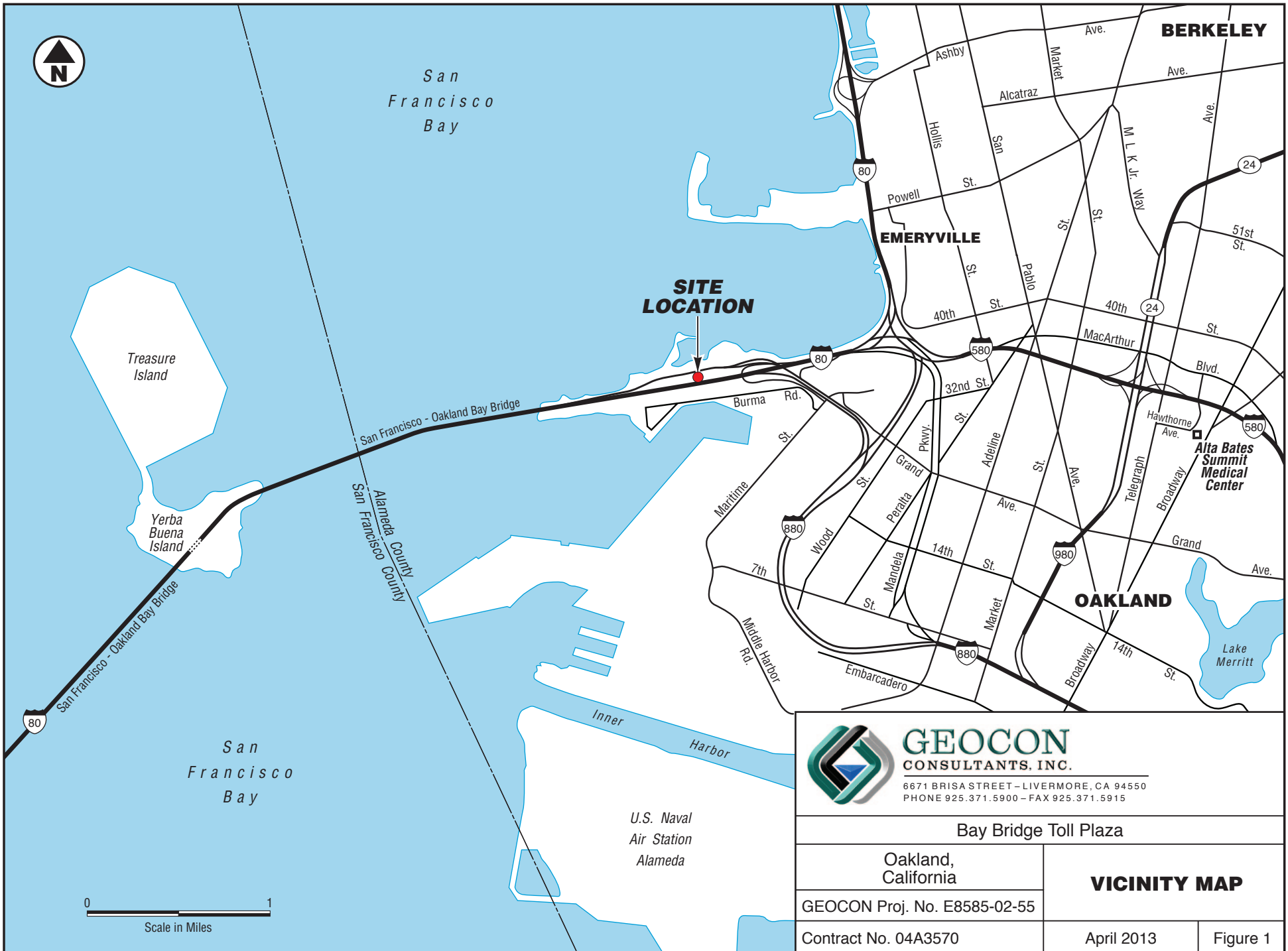
Based on field observations noted during the UST removals, as well as analytical laboratory results of confirmation soil samples, the following is concluded:

- Obvious petroleum impacts to soil and groundwater beneath and surrounding UST #1 to UST #3 were observed during the removal activities. Overburden soils as well as soil and groundwater under each UST had noticeable petroleum odors. These soils were disposed offsite at the Hay Road and Altamont Road Class II Landfills.
- Analytical results of the grab groundwater samples indicate that TPHg and TPHd were present at concentrations ranging from 320 ug/l TPHg in the sample from the UST #2 & #3 excavation area to 110,000 ug/l TPHd in the sample from the UST #1 excavation.

The TPHd concentrations for the groundwater samples collected from the UST #1 and UST #2 and #3 excavation areas exceeded the San Francisco Bay Regional Water Quality Control Board environmental screening levels (ESL) for marine aquatic habitat goals (Table 1), the only potentially applicable ESL given the site location and planned land use.

- The ethylbenzene (120 ug/l) and xylenes (283 ug/l) concentrations detected in the groundwater sample collected from the UST #1 excavation area exceeded the marine aquatic habitat ESLs for each of these analytes (Table 1).
- Target analytes in the confirmation soil sample collected from the UST #2 & #3 excavation were not reported at concentrations exceeding applicable ESLs (Table 2).

Based on field observations noted during the UST removals, as well as soil and grab groundwater samples collected beneath each tank, we do not feel that additional investigation is necessary at this site. Soil between ground surface and groundwater does not contain petroleum hydrocarbons and related compounds in excess of RWQCB ESLs, and groundwater is not likely to pose an unacceptable threat to human health or aquatic life in San Francisco Bay since the closest point to the Bay is more than 670 feet northwest of the UST #2 & #3 excavation area and the renovated toll plaza area where both UST excavation areas are located is going to be redeveloped as a paved parking area and recreational park.



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**Oakland,
California**

VICINITY MAP

GEOCON Proj. No. E8585-02-55

Contract No. 04A3570

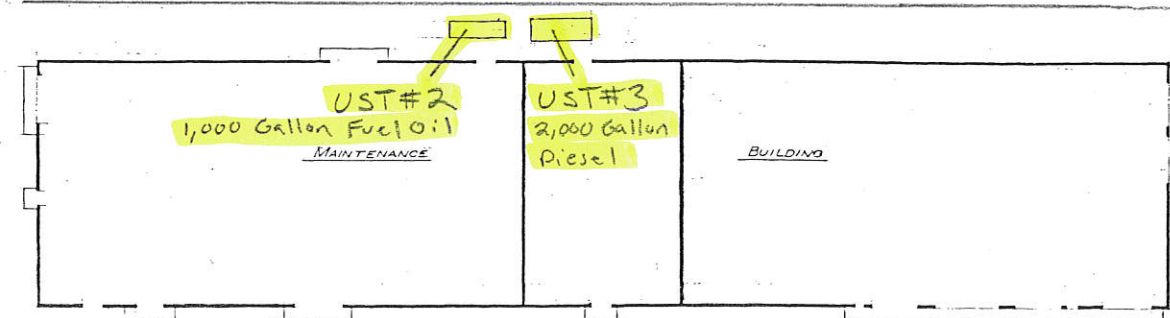
April 2013

Figure 1



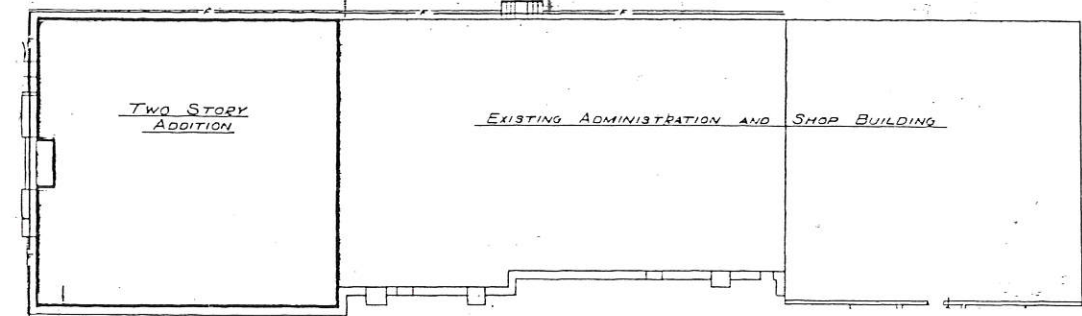
Interstate 80

Toll Plaza



UST#1
3,000 Gallon
Gasoline

SERVICE
STATION
PUMP
HOUSE



Scale
50'



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Bay Bridge Toll Plaza

Oakland,
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SITE PLAN

GEOCON Proj. No. E8585-02-55

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Figure 2

Table 1
UST #1 and UST #2 & #3 Groundwater Sample Analysis Results
Caltrans - Bay Bridge Toll Plaza
Oakland, California

Sample ID	Sample Depth (feet bgs)	TPHg (ug/l)	TPHd (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	1,2-DCA (ug/l)	EDB (ug/l)	MTBE (ug/l)	TAME (ug/l)	TBA (ug/l)	DIPE (ug/l)	ETBE (ug/l)
UST #1	8	2,500	110,000	50	67	120	283	<0.50	<0.50	320	1.9	21	<0.50	<0.50
UST #2 & #3	8	320	19,000	<0.50	1.3	5.1	49	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50
<u>Groundwater ESLs</u>														
Marine Aquatic Habitat Goal		3,700	640	350	2,500	43	100	2,000	1,400	8,000	---	18,000	---	---

Notes-

< = analyte was not detected above the laboratory reporting limit

ug/l - micrograms per liter

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel

1,2-DCA - 1,2-dichloroethane

EDB - ethylene dibromide

DIPE - di-isopropyl ether

MTBE - methyl tertiary butyl ether

TAME - tert-Amyl-methyl ether

TBA - tert-butanol

ETBE - ethyl tert-butyl ether

ESLs = Environmental Screening Levels, Tables F-1a and F-4a, SFRWQCB, Revised February 2013

Table 2
UST #2 & #3 Soil Sample Analysis Results
Caltrans - Bay Bridge Toll Plaza
Oakland, California

Sample ID	Sample Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	MTBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)
UST #2 & #3	8	<1.0	7.1	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005
<u>ESLs</u>														
	Residential Land Use	83	83	0.04	2.9	2.3	2.3	0.0045	0.0003	0.023	---	0.075	---	---
	Comm/Ind Land Use	83	83	0.04	2.9	3.3	2.3	0.0045	0.0003	0.023	---	0.075	---	---
Construction/Trench Worker Exposure		6,200	12,000	3.1	3,000	28	1,500	18	0.086	170	---	---	---	---

Notes-

< = analyte was not detected above the laboratory reporting limit

mg/kg - milligrams per kilogram

TPHg - total petroleum hydrocarbons as gasoline

TPHd - total petroleum hydrocarbons as diesel

1,2-DCA - 1,2-dichloroethane

EDB - ethylene dibromide

DIPE - di-isopropyl ether

MTBE - methyl tertiary butyl ether

TAME - tert-Amyl-methyl ether

TBA - tert-butanol

ETBE - ethyl tert-butyl ether

ESLs = Environmental Screening Levels, Tables A and K-3, SFRWQCB, Revised February 2013

Table 3
Stockpile Soil Sample Analysis Results - Organics
Caltrans - Bay Bridge Toll Plaza
Oakland, California

Sample ID	TPHg (mg/kg)	TPHd (mg/kg)	O&G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
Comp A-D	1.7	47	110	<0.005	<0.005	<0.005	<0.005	<0.05
Comp E-H	260	430	120	<0.10	0.64	1.8	2.1	<1.0

Notes -

< = analyte was not detected above the laboratory reporting limit

mg/kg = milligrams per kilogram

TPHg - total petroleum hydrocarbons as gas

TPHd - total petroleum hydrocarbons as diesel

O&G - oil and grease

MTBE - methyl tertiary butyl ether

Table 4
Stockpile Soil Sample Analysis Results - CAM 17 Metals
Caltrans - Bay Bridge Toll Plaza
Oakland, California

	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Sample ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Comp A-D	0.65	2.1	57	<0.5	<0.25	33	7.4	17	65 / 2.6*	0.061	<0.5	33	<0.5	<0.5	<0.5	45	54
Comp E-H	<0.5	2.0	58	<0.5	<0.25	56 / 0.18*	7.9	14	15	0.054	<0.5	52	<0.5	<0.5	<0.5	40	36
Hazardous Waste Criteria																	
TTL	500	500	10,000	75	100	2,500*	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC	15	5.0	100	0.75	1.0	5.0**	80	25	5.0	0.2	350	20	1.0	5.0	7.0	24	250

Notes -

< = analyte was not detected above the laboratory reporting limit

* - Soluble threshold limit concentration (STLC) in milligrams per liter (mg/l)

mg/kg = milligrams per kilogram

ESLs for chromium are for Chromium III, as there is no standard for total chromium

TTL = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration (mg/l)

APPENDIX

A



Photo 1 – View looking northeast at UST #1 prior to breaking out the overlying asphalt and concrete.



Photo 2 – View looking northeast as UST #1 as the top of the UST is being unearthed.



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SITE PHOTOS 1 and 2

Caltrans Bay Bridge Toll Plaza
Oakland, California

E8585-02-55

Appendix A

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Photo 3 – View of UST #1 after top was torn open and sand slurry was removed from the tank.

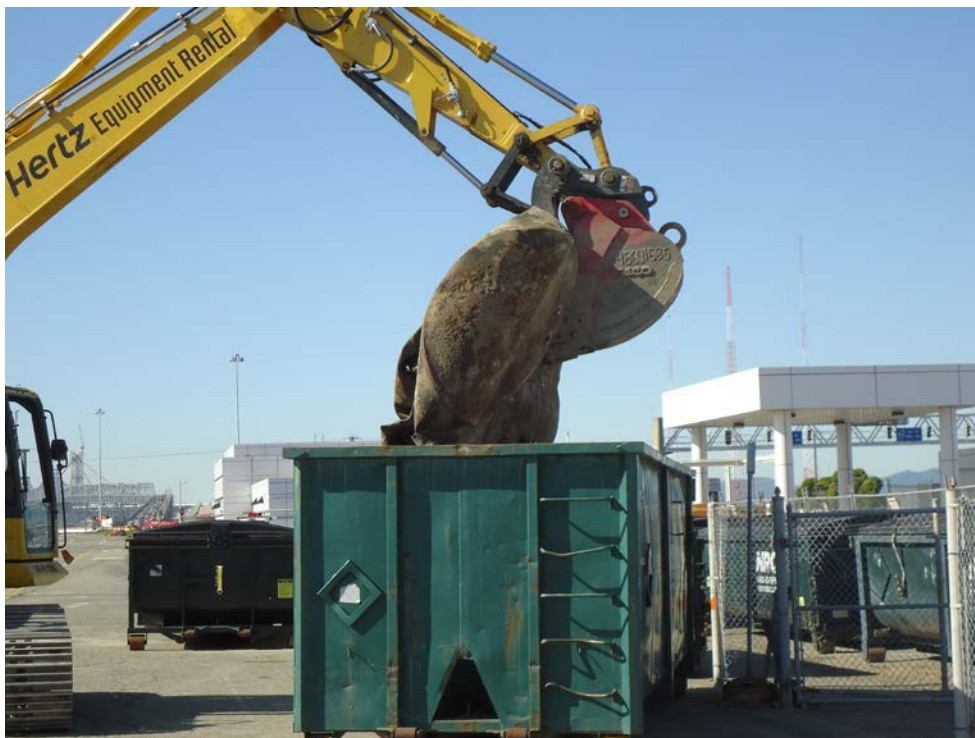


Photo 4 – View of UST #1 being loaded into 40 cubic yard bin for disposal as scrap metal.



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SITE PHOTOS 3 and 4

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Appendix A

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Photo 5 – View looking at UST #1 after UST was removed and groundwater entered the excavation.



Photo 6 – View of petroleum-impacted groundwater in UST #1 excavation being removed prior to backfilling.



Photo 7 – View of NRC removing petroleum hydrocarbon-impacted groundwater from UST #1 excavation.



Photo 8 – View of filter fabric being placed in UST #1 excavation during backfilling operations.



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SITE PHOTOS 7 and 8

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Appendix A

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Photo 9 – View of fuel oil being removed from UST #2.



Photo 10 – View of the top of UST #2 after the ends of the tank were further opened using a rivet buster.



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SITE PHOTOS 9 and 10

Caltrans Bay Bridge Toll Plaza
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Appendix A

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Photo 11 – View of UST #2 being removed from excavation.

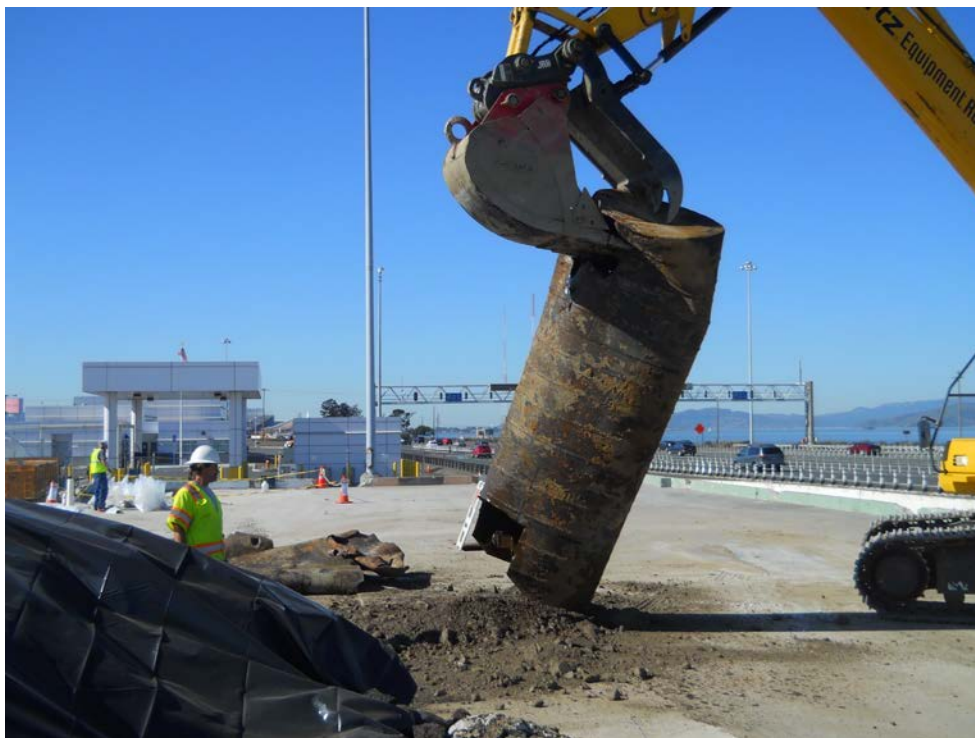


Photo 12 – View of UST #2 being crushed for disposal as scrap metal.



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SITE PHOTOS 11 and 12

Caltrans Bay Bridge Toll Plaza
Oakland, California

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Appendix A

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Photo 13 – View of UST #3 after the top was peeled back and the sand slurry inside tank was exposed.



Photo 14 – View of residual fluids in UST #3 being removed by NRC.



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SITE PHOTOS 13 and 14

Caltrans Bay Bridge Toll Plaza
Oakland, California

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Photo 15 – View of sand slurry in UST #3 being broken up pneumatic hammer.



Photo 16 – View of sand slurry in UST #3 being excavated prior to removing tank from the ground.



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SITE PHOTOS 15 and 16

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Photo 17 – View of UST #3 being removed from the ground.



Photo 18 – View of UST #3 being further emptied of sand slurry prior to being crushed.



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SITE PHOTOS 17 and 18

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Appendix A

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Photo 19 – View of free product remaining in UST #1 excavation after groundwater had been removed.



Photo 20 – View of groundwater in east end of UST #2/UST #3 excavation beneath UST #3.



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CONSULTANTS, INC.

6671 BRISA STREET – LIVERMORE, CA 94550
PHONE 925.371.5900 – FAX 925.371.5915

SITE PHOTOS 19 and 20

Caltrans Bay Bridge Toll Plaza
Oakland, California

E8585-02-55

Appendix A

April 2013

APPENDIX


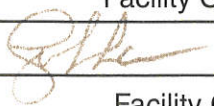
B

**OAKLAND FIRE DEPARTMENT/FIRE PREVENTION BUREAU
HAZARDOUS MATERIALS UNIT**

250 FRANK H. OGAWA PLAZA, SUITE 3341, OAKLAND, CA 94612-2032 • (510) 238-3927

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number	Facility Name	Facility Address	Zip Code
	CAL-TRANS	Bay Bridge Toll Plaza	
Inspection Report			
<input checked="" type="checkbox"/> PERMISSION TO INSPECT GRANTED			
1) On-site to OBSERVE to removal and sampling of three (3) underground storage tanks located at the Bay Bridge toll Plaza.			
Tanks were closed in place in 1996, tanks were fill with concrete slurry.			
2) Consultant observed one hole in tank #1, no obvious visible staining or discoloration in excavation			
3) Groundwater was encountered during removal, no visible stream observed			
Sample Series - Lot 524			

Facility Contact/Print Name:	Inspected By: 	<input checked="" type="checkbox"/> AFM Griffin	238-7759
Facility Contact/Signature: 		<input type="checkbox"/> Insp. Matthews	238-2396
	238-3927	<input type="checkbox"/> Insp. Skillern	238-7253
		<input type="checkbox"/> _____	238-3927
		Date:	2/15/13

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

Site Address: <u>BAY BRIDGE / TOLL PLAZA</u>	Name of Facility: <u>CALTRANS</u>
Inspector: <u>ASH LEROY GRIFFIN</u>	Contact on site: <u>JOHN LOVE</u>
Date and Time of Arrival: <u>2/15/13 - 1200 Hrs</u>	Contractor/Consultant: <u>GEOSON</u>

General Requirements	Yes	No	N/A
Approved closure plan on site.	<input checked="" type="checkbox"/>		
Changes to approved plan noted.			<input checked="" type="checkbox"/>
Residuals properly stored/transported.	<input checked="" type="checkbox"/>		
Receipt for adequate dry ice noted.	<input checked="" type="checkbox"/>		

General Requirements	Yes	No	N/A
Site Safety Plan properly signed.	<input checked="" type="checkbox"/>		
40B:C fire extinguisher on site.	<input checked="" type="checkbox"/>		
"No Smoking" signs posted.	<input checked="" type="checkbox"/>		
Gas detector challenged by inspector.	<input checked="" type="checkbox"/>		

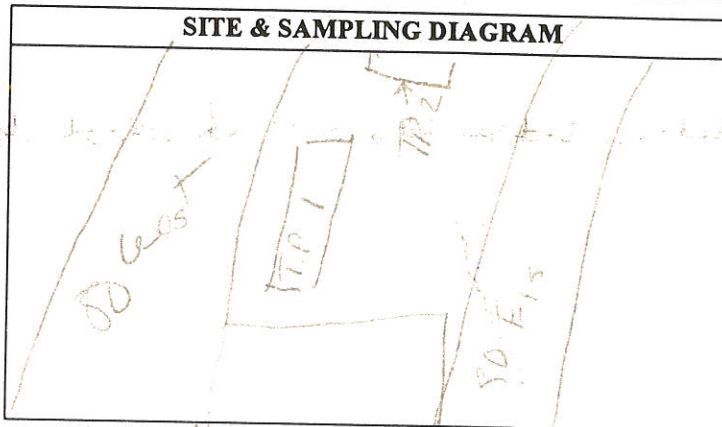
Tank Observations	T #1	T #2	T #3	T #4
Tank Capacity (gallons)	<u>3,000</u>	<u>2,800</u>	<u>2,000</u>	
Material last stored	<u>GAS</u>	<u>RESID</u>	<u>DIESEL</u>	
Dry ice used (pounds)				
Combustible gas concentration as %LEL. (Note time & sampling point)				
(1) <u>SEE NOTES</u>				
(2)				
(3)				
Oxygen concentration as % volume. (Note time & sampling point)				
(1) <u>SEE NOTES</u>				
(2)				
(3)				
Tank Material	<u>STEEL</u>	<u>STEEL</u>	<u>STEEL</u>	
Wrapping/Coating, if any	<u>NO</u>	<u>NO</u>	<u>NO</u>	
Obvious holes?	<u>YES</u>	<u>NO</u>	<u>NO</u>	

Tank Observations	T #1	T #2	T #3	T #4
Obvious corrosion?	<u>N</u>	<u>N</u>	<u>N</u>	
Obvious odors from tank?	<u>N</u>	<u>N</u>	<u>N</u>	
Seams intact?	<u>Y</u>	<u>Y</u>	<u>Y</u>	
Tank bed backfill material	<u>SOIL/PE</u>	<u>SOIL/PE</u>	<u>SOIL/PE</u>	
Obvious discoloration?	<u>N</u>	<u>N</u>	<u>N</u>	
Obvious odors ex tank bed?	<u>N</u>	<u>N</u>	<u>N</u>	
Water in excavation?	<u>Y</u>	<u>Y</u>	<u>Y</u>	
Sheen/product on water?	<u>N</u>	<u>N</u>	<u>N</u>	
Tank tagged by transporter?	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
Tank wrapped for transport?	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
Tank plugged w/ vent cap?	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
Date/time tank hauled off?	<u>2/15</u>	<u>2/15</u>	<u>2/15</u>	
No. of soil samples taken?	<u>1</u>	<u>1</u>	<u>1</u>	
Depth of soil samples (ft, bgs)	<u>12"</u>	<u>12"</u>	<u>12"</u>	

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?	<input checked="" type="checkbox"/>		
Obvious holes on pipes?		<input checked="" type="checkbox"/>	
Obvious odors from pipes?		<input checked="" type="checkbox"/>	
Obvious soil discoloration in piping trench?		<input checked="" type="checkbox"/>	
Obvious odors from piping trench?		<input checked="" type="checkbox"/>	
Water in piping trench?	<input checked="" type="checkbox"/>		
Number & depth of soil samples from piping trench?	<u>12"</u>	<u>GRAB/Soil</u>	
Number & depth of water samples from piping trench?	<u>12"</u>	<u>GRAB/Soil</u>	

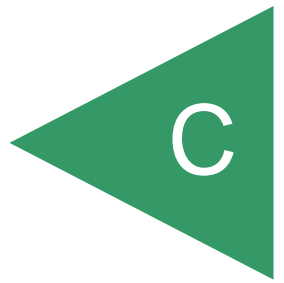
General Observations	Yes	No	N/A
Leak from any tank suspected?		<input checked="" type="checkbox"/>	
"Leak Report" form given to the operator?			<input checked="" type="checkbox"/>
Obviously contaminated soil excavated?		<input checked="" type="checkbox"/>	
Soil stockpile sampled?	<input checked="" type="checkbox"/>		
Stockpile lined AND covered?	<input checked="" type="checkbox"/>		
Water in excavation sampled?	<input checked="" type="checkbox"/>		
Number/depth of water samples taken?		<u>4 P.A.</u>	
All samples properly preserved for transport?	<input checked="" type="checkbox"/>		

Additional Observations	Yes	No	N/A
Soil/water sampling protocols acceptable?	<input checked="" type="checkbox"/>		
Sampling "chain of custody" noted?	<input checked="" type="checkbox"/>		
Tank pit filled in or covered?	<input checked="" type="checkbox"/>		
Tank pit fenced or barricaded?	<input checked="" type="checkbox"/>		
Transporter a registered HW hauler?	<input checked="" type="checkbox"/>		
Uniform HW Manifest completed?			<input checked="" type="checkbox"/>
Contractor/Consultant reminded of complete UST Removal Report due within 30 days?	<input checked="" type="checkbox"/>		
Date/Time removal/closure operations completed?		<u>2/15/13</u>	
OT hours or additional charges due from contractor?		<u>NONE</u>	



Notes/Comments: TANKS were closed in place in 1996

APPENDIX



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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number 000812592 JJK		
5. Generator's Name and Mailing Address					Generator's Site Address (if different than mailing address)		
Generator's Phone:					U.S. EPA ID Number		
6. Transporter 1 Company Name					U.S. EPA ID Number		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address					U.S. EPA ID Number		
Facility's Phone:					U.S. EPA ID Number		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
		1. UNCLE TOM'S HAZARDOUS WASTE LIQUID (OIL/WATER)	001	IT	35		221
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information							
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/Offor's Printed/Typed Name					Signature		Month Day Year
Chris Blakes					Chris Blakes		2 13 13
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____				
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name		Signature		Month Day Year		
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number:					U.S. EPA ID Number	
	18b. Alternate Facility (or Generator)						
	Facility's Phone:					Month Day Year	
18c. Signature of Alternate Facility (or Generator)							
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
Chris Blakes					Chris Blakes		2 13 13

RIVERBANK OIL TRANSFER, LLC
530 Claus Road
Riverbank, California 95367

6618

Receiving Report/Waste Profile Form

Transaction /Delivering Date _____ Time _____

Customer _____ PO# _____

Address _____

Cust. Contract _____ Phone # _____

Transported By _____ Trk# _____

Manifest# _____

Product/Service _____ Estimated Quantity _____

Test Result: Does this material contain any of the following?

NO RCRA Waste NO Solvents NO Solid _____ PCB's

Does the material meet the definition of use oil? YES / NO

If used oil, is the flash greater than 100F? YES / NO

Halogens _____ pH(water-antifreeze) _____ API Antifreeze _____

Generating process _____

Comments _____

Transferred to Rail car # _____ Signed by _____

FOR BILLING ONLY

Net wt.	API	Temp	Lbs per Gal	Actual Gals.	Net Gallons
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

% of Water _____

Emulsion: Yes / No

Pay / Rec: Invoice# _____

Price _____ per _____

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone		4. Manifest Tracking Number		
								009812596 JJK		
5. Generator's Name and Mailing Address										
Generator's Site Address (if different than mailing address)										
Generator's Phone:										
6. Transporter 1 Company Name						U.S. EPA ID Number				
7. Transporter 2 Company Name						U.S. EPA ID Number				
8. Designated Facility Name and Site Address						U.S. EPA ID Number				
Facility's Phone:						CAL 000 1 008 1 8				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
						No.	Type			
		1. NON-FLAMMABLE HAZARDOUS WASTE LIQUID / OILY WATER				001	TT	01384		221
		2.								
		3.								
	4.									
14. Special Handling Instructions and Additional Information										
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/Offor's Printed/Typed Name: Chris Blodson										
Signature: [Signature]										
Month: 12 Day: 15 Year: 15										
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:									
	Transporter signature (for exports only):									
	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name: David D. D. Sro				Signature: [Signature]		Month: 12 Day: 15 Year: 15			
	Transporter 2 Printed/Typed Name:				Signature:		Month: Day: Year:			
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	Manifest Reference Number: U.S. EPA ID Number									
	18b. Alternate Facility (or Generator)									
	Facility's Phone: Month: Day: Year:									
	18c. Signature of Alternate Facility (or Generator)									
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]										
Signature: [Signature]										
Month: 12 Day: 15 Year: 15										

RIVERBANK OIL TRANSFER, LLC
530 Claus Road
Riverbank, California 95367

Receiving Report/Waste Profile Form

Transaction /Delivering Date _____ Time _____
Customer N.E.C. PO# 73317
Address _____
Cust. Contract _____ Phone # _____
Transported By James Trk# 0191
Manifest# 4312896 758

Product/Service _____ Estimated Quantity 1524

Test Result: Does this material contain any of the following?

RCRA Waste Solvents Solid _____ PCB's

Does the material meet the definition of use oil? YES / NO

If used oil, is the flash greater than 100F? YES / NO

Halogens 2100 pH(water antifreeze) _____ API Antifreeze _____

Generating process _____

Comments _____

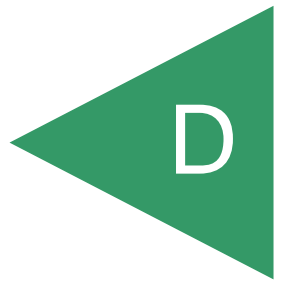
Transferred to Rail car # TR 60231 Signed by /

FOR BILLING ONLY

Net wt.	API	Temp	Lbs per Gal	Actual Gals.	Net Gallons
_____	<u>120</u>	<u>66</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
% of Water	_____	_____	_____	_____	_____
Pay / Rec:	Invoice# _____	_____	Price _____	per _____	_____

Emulsion: Yes / No

APPENDIX





February 25, 2013

John Love
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 525-4142
Fax: (925) 371-5915



Re: ATL Work Order Number : 1300539
Client Reference : SFOBB UST Removals, E8585-02-55

Enclosed are the results for sample(s) received on February 16, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertain to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "E Rodriguez".

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Geocon Consultants, Inc.

6671 Brisa Street

Livermore , CA 94550

Project Number : SFOBB UST Removals, E8585-02-55

Report To : John Love

Reported : 02/25/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
UST #1	1300539-01	Groundwater	2/15/13 12:10	2/16/13 8:10
UST #2 & 3	1300539-02	Groundwater	2/15/13 12:25	2/16/13 8:10
UST #2 & 3 (8')	1300539-03	Soil	2/15/13 12:30	2/16/13 8:10



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55
Report To : John Love
Reported : 02/25/2013

Client Sample ID UST #1

Lab ID: 1300539-01

Gasoline Range Organics by EPA 8015B

Analyst: LT

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	2.5	0.05	NA	1	B3B0390	02/19/2013	02/19/13 12:10	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>143 %</i>		<i>70 - 130</i>		B3B0390	02/19/2013	<i>02/19/13 12:10</i>	<i>S7</i>

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	110000	5000	5000	100	B3B0358	02/18/2013	02/18/13 16:20	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>48 - 124</i>		B3B0358	02/18/2013	<i>02/18/13 16:20</i>	<i>S4</i>

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	50	0.50	NA	1	B3B0351	02/18/2013	02/18/13 16:47	
Di-isopropyl ether	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 16:47	
Ethyl tert-butyl ether	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 16:47	
Ethylbenzene	120	5.0	NA	10	B3B0351	02/18/2013	02/18/13 17:11	
m,p-Xylene	250	10	NA	10	B3B0351	02/18/2013	02/18/13 17:11	
MTBE	320	5.0	NA	10	B3B0351	02/18/2013	02/18/13 17:11	
o-Xylene	33	0.50	NA	1	B3B0351	02/18/2013	02/18/13 16:47	
tert-Amyl methyl ether	1.9	0.50	NA	1	B3B0351	02/18/2013	02/18/13 16:47	
tert-Butanol	21	10	NA	1	B3B0351	02/18/2013	02/18/13 16:47	
Toluene	67	0.50	NA	1	B3B0351	02/18/2013	02/18/13 16:47	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>105 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 16:47</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>97.3 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 17:11</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>112 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 17:11</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>117 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 16:47</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>97.7 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 17:11</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 16:47</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.6 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 17:11</i>	
<i>Surrogate: Toluene-d8</i>	<i>110 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 16:47</i>	



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55
Report To : John Love
Reported : 02/25/2013

Client Sample ID UST #2 & 3

Lab ID: 1300539-02

Gasoline Range Organics by EPA 8015B

Analyst: LT

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	0.32	0.05	NA	1	B3B0390	02/19/2013	02/19/13 12:30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>		<i>70 - 130</i>		B3B0390	02/19/2013	<i>02/19/13 12:30</i>	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	19000	2500	2500	50	B3B0358	02/18/2013	02/18/13 16:03	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>48 - 124</i>		B3B0358	02/18/2013	<i>02/18/13 16:03</i>	S4

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
Di-isopropyl ether	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
Ethyl tert-butyl ether	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
Ethylbenzene	5.1	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
m,p-Xylene	23	1.0	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
MTBE	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
o-Xylene	26	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
tert-Amyl methyl ether	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
tert-Butanol	ND	10	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
Toluene	1.3	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 15:59</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>124 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 15:59</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 15:59</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.1 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 15:59</i>	



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55
Report To : John Love
Reported : 02/25/2013

Client Sample ID UST #2 & 3 (8')

Lab ID: 1300539-03

Gasoline Range Organics by EPA 8015B

Analyst: VN

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B3B0384	02/19/2013	02/19/13 10:35	
Surrogate: 4-Bromofluorobenzene	88.1 %		64 - 149		B3B0384	02/19/2013	02/19/13 10:35	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	7.1	1.0	NA	1	B3B0379	02/18/2013	02/19/13 09:40	
Surrogate: p-Terphenyl	83.3 %		39 - 123		B3B0379	02/18/2013	02/19/13 09:40	

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
Di-isopropyl ether	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
Ethylbenzene	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
m,p-Xylene	ND	10	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
MTBE	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
o-Xylene	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
tert-Amyl methyl ether	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
tert-Butanol	ND	100	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
Toluene	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
Surrogate: 1,2-Dichloroethane-d4	115 %		70 - 130		B3B0354	02/18/2013	02/18/13 12:29	
Surrogate: 4-Bromofluorobenzene	89.7 %		70 - 130		B3B0354	02/18/2013	02/18/13 12:29	
Surrogate: Dibromofluoromethane	114 %		70 - 130		B3B0354	02/18/2013	02/18/13 12:29	
Surrogate: Toluene-d8	96.9 %		70 - 130		B3B0354	02/18/2013	02/18/13 12:29	



Certificate of Analysis

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6671 Brisa Street
Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55
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QUALITY CONTROL SECTION

Gasoline Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0384 - GCVOAS

Blank (B3B0384-BLK1)

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	ND	1.0				NR			
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Surrogate: 4-Bromofluorobenzene

0.08316

0.100000

83.2

64 - 149

LCS (B3B0384-BS1)

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	5.31800		5.00000		106	70 - 130			
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Surrogate: 4-Bromofluorobenzene

0.1046

0.100000

105

64 - 149

LCS Dup (B3B0384-BSD1)

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	5.48400		5.00000		110	70 - 130	3.07	20	
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Surrogate: 4-Bromofluorobenzene

0.1043

0.100000

104

64 - 149

Duplicate (B3B0384-DUP1)

Source: 1300539-03

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	0.207000	1.0		0.225000	NR		8.33	20	
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Surrogate: 4-Bromofluorobenzene

0.08266

0.100000

82.7

64 - 149

Matrix Spike (B3B0384-MS1)

Source: 1300531-07

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	5.10500		5.00000	0.216000	97.8	40 - 125			
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Surrogate: 4-Bromofluorobenzene

0.1018

0.100000

102

64 - 149

Matrix Spike Dup (B3B0384-MSD1)

Source: 1300531-07

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	5.19800		5.00000	0.216000	99.6	40 - 125	1.81	20	
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Surrogate: 4-Bromofluorobenzene

0.1058

0.100000

106

64 - 149

Batch B3B0390 - GCVOAW

Blank (B3B0390-BLK1)

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	ND	0.05				NR			
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Surrogate: 4-Bromofluorobenzene

0.09854

0.100000

98.5

70 - 130

LCS (B3B0390-BS1)

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	1.05200	0.05	1.00000		105	70 - 130			
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Surrogate: 4-Bromofluorobenzene

0.1112

0.100000

111

70 - 130

LCS Dup (B3B0390-BSD1)

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	1.07400	0.05	1.00000		107	70 - 130	2.07	20	
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Surrogate: 4-Bromofluorobenzene

0.1120

0.100000

112

70 - 130

Duplicate (B3B0390-DUP1)

Source: 1300539-01

Prepared: 2/19/2013 Analyzed: 2/19/2013



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Project Number : SFOBB UST Removals, E8585-02-55

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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0390 - GCVOAW (continued)

Duplicate (B3B0390-DUP1) - Continued

Source: 1300539-01

Prepared: 2/19/2013 Analyzed: 2/19/2013

Gasoline Range Organics	2.47800	0.05		2.46300	NR		0.607	20	
Surrogate: 4-Bromofluorobenzene	0.1416		0.100000		142	70 - 130			S7



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0358 - GCSEMI_DRO

Blank (B3B0358-BLK1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

DRO	ND	50			NR				
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Surrogate: p-Terphenyl

65.27 80.0000 81.6 48 - 124

LCS (B3B0358-BS1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

DRO	769.550	50	1000.00		77.0	45 - 109			
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Surrogate: p-Terphenyl

65.27 80.0000 81.6 48 - 124

LCS Dup (B3B0358-BSD1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

DRO	765.900	50	1000.00		76.6	45 - 109	0.475	20	
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Surrogate: p-Terphenyl

65.65 80.0000 82.1 48 - 124

Batch B3B0379 - GCSEMI_DRO_SOIL_LL

Blank (B3B0379-BLK1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

DRO	ND	1.0			NR				
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Surrogate: p-Terphenyl

2.126 2.66667 79.7 39 - 123

LCS (B3B0379-BS1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

DRO	26.9793	1.0	33.3333		80.9	37 - 109			
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Surrogate: p-Terphenyl

1.772 2.66667 66.5 39 - 123

Duplicate (B3B0379-DUP1)

Source: 1300539-03

Prepared: 2/18/2013 Analyzed: 2/19/2013

DRO	6.46767	1.0		7.07215	NR		8.93	20	
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Surrogate: p-Terphenyl

2.237 2.66667 83.9 39 - 123

Matrix Spike (B3B0379-MS1)

Source: 1300519-04

Prepared: 2/18/2013 Analyzed: 2/18/2013

DRO	23.6330	1.0	33.3333	3.79100	59.5	29 - 107			
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Surrogate: p-Terphenyl

1.841 2.66667 69.0 39 - 123

Matrix Spike Dup (B3B0379-MSD1)

Source: 1300519-04

Prepared: 2/18/2013 Analyzed: 2/18/2013

DRO	21.7770	1.0	33.3333	3.79100	54.0	29 - 107	8.17	20	
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Surrogate: p-Terphenyl

1.775 2.66667 66.6 39 - 123



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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0354 - MSVOAS

Blank (B3B0354-BLK1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

Benzene	ND	5.0			NR				
Di-isopropyl ether	ND	5.0			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
MTBE	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
Toluene	ND	5.0			NR				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>58.18</i>		<i>50.0000</i>		<i>116</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.18</i>		<i>50.0000</i>		<i>88.4</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.15</i>		<i>50.0000</i>		<i>106</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.30</i>		<i>50.0000</i>		<i>96.6</i>	<i>70 - 130</i>			

LCS (B3B0354-BS1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	43.8000	5.0	50.0000		87.6	70 - 130			
Benzene	95.4600	5.0	100.000		95.5	70 - 130			
Chlorobenzene	51.1200	5.0	50.0000		102	70 - 130			
MTBE	48.5000	5.0	50.0000		97.0	70 - 130			
Toluene	100.200	5.0	100.000		100	70 - 130			
Trichloroethene	49.8000	5.0	50.0000		99.6	70 - 130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>58.08</i>		<i>50.0000</i>		<i>116</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.36</i>		<i>50.0000</i>		<i>96.7</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.82</i>		<i>50.0000</i>		<i>104</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.46</i>		<i>50.0000</i>		<i>101</i>	<i>70 - 130</i>			

LCS Dup (B3B0354-BSD1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	42.7200	5.0	50.0000		85.4	70 - 130	2.50	20	
Benzene	93.0200	5.0	100.000		93.0	70 - 130	2.59	20	
Chlorobenzene	50.3000	5.0	50.0000		101	70 - 130	1.62	20	
MTBE	48.2100	5.0	50.0000		96.4	70 - 130	0.600	20	
Toluene	98.6600	5.0	100.000		98.7	70 - 130	1.55	20	
Trichloroethene	48.6300	5.0	50.0000		97.3	70 - 130	2.38	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>59.17</i>		<i>50.0000</i>		<i>118</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.31</i>		<i>50.0000</i>		<i>98.6</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.72</i>		<i>50.0000</i>		<i>107</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.29</i>		<i>50.0000</i>		<i>103</i>	<i>70 - 130</i>			

Matrix Spike (B3B0354-MS1)

Source: 1300539-03

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	46.2900	5.0	50.0000	ND	92.6	70 - 130			
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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0354 - MSVOAS (continued)

Matrix Spike (B3B0354-MS1) - Continued

Source: 1300539-03

Prepared: 2/18/2013 Analyzed: 2/18/2013

Benzene	98.8800	5.0	100.000	ND	98.9	70 - 130			
Chlorobenzene	54.0300	5.0	50.0000	ND	108	70 - 130			
MTBE	51.9200	5.0	50.0000	ND	104	70 - 130			
Toluene	104.780	5.0	100.000	ND	105	70 - 130			
Trichloroethene	52.7300	5.0	50.0000	ND	105	70 - 130			

Surrogate: 1,2-Dichloroethane-d4	58.59		50.0000		117	70 - 130			
Surrogate: 4-Bromofluorobenzene	50.50		50.0000		101	70 - 130			
Surrogate: Dibromofluoromethane	54.23		50.0000		108	70 - 130			
Surrogate: Toluene-d8	49.90		50.0000		99.8	70 - 130			

Matrix Spike Dup (B3B0354-MSD1)

Source: 1300539-03

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	46.3200	5.0	50.0000	ND	92.6	70 - 130	0.0648	20	
Benzene	97.7100	5.0	100.000	ND	97.7	70 - 130	1.19	20	
Chlorobenzene	52.6700	5.0	50.0000	ND	105	70 - 130	2.55	20	
MTBE	50.2400	5.0	50.0000	ND	100	70 - 130	3.29	20	
Toluene	104.630	5.0	100.000	ND	105	70 - 130	0.143	20	
Trichloroethene	51.9600	5.0	50.0000	ND	104	70 - 130	1.47	20	

Surrogate: 1,2-Dichloroethane-d4	57.10		50.0000		114	70 - 130			
Surrogate: 4-Bromofluorobenzene	49.61		50.0000		99.2	70 - 130			
Surrogate: Dibromofluoromethane	55.07		50.0000		110	70 - 130			
Surrogate: Toluene-d8	52.09		50.0000		104	70 - 130			



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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0351 - MSVOAW_LL

Blank (B3B0351-BLK1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

Benzene	ND	0.50			NR				
Di-isopropyl ether	ND	0.50			NR				
Ethyl tert-butyl ether	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
MTBE	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
tert-Amyl methyl ether	ND	0.50			NR				
tert-Butanol	ND	10			NR				
Toluene	ND	0.50			NR				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>27.19</i>		<i>25.0000</i>		<i>109</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>27.28</i>		<i>25.0000</i>		<i>109</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>27.58</i>		<i>25.0000</i>		<i>110</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>24.02</i>		<i>25.0000</i>		<i>96.1</i>	<i>70 - 130</i>			

LCS (B3B0351-BS1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	17.0400		20.0000		85.2	70 - 130			
Benzene	38.9900		40.0000		97.5	70 - 130			
Chlorobenzene	21.0000		20.0000		105	70 - 130			
MTBE	14.3500		20.0000		71.8	70 - 130			
Toluene	46.9800		40.0000		117	70 - 130			
Trichloroethene	19.9400		20.0000		99.7	70 - 130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>23.29</i>		<i>25.0000</i>		<i>93.2</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>26.13</i>		<i>25.0000</i>		<i>105</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>24.36</i>		<i>25.0000</i>		<i>97.4</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>27.51</i>		<i>25.0000</i>		<i>110</i>	<i>70 - 130</i>			

LCS Dup (B3B0351-BS1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	15.7600		20.0000		78.8	70 - 130	7.80	20	
Benzene	37.7400		40.0000		94.4	70 - 130	3.26	20	
Chlorobenzene	20.7000		20.0000		104	70 - 130	1.44	20	
MTBE	15.3200		20.0000		76.6	70 - 130	6.54	20	
Toluene	45.2200		40.0000		113	70 - 130	3.82	20	
Trichloroethene	19.0100		20.0000		95.0	70 - 130	4.78	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>23.40</i>		<i>25.0000</i>		<i>93.6</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>25.35</i>		<i>25.0000</i>		<i>101</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>24.39</i>		<i>25.0000</i>		<i>97.6</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>26.58</i>		<i>25.0000</i>		<i>106</i>	<i>70 - 130</i>			



Certificate of Analysis

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Reported : 02/25/2013

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0351 - MSVOAW_LL (continued)

Duplicate (B3B0351-DUP1)

Source: 1300539-02

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	ND	0.50		ND	NR			20	
Benzene	ND	0.50		ND	NR			20	
Chlorobenzene	ND	0.50		ND	NR			20	
MTBE	0.500000	0.50		0.420000	NR		17.4	20	
Toluene	1.22000	0.50		1.30000	NR		6.35	20	
Trichloroethene	ND	0.50		ND	NR			20	

Surrogate: 1,2-Dichloroethane-d4 25.40 25.0000 102 70 - 130

Surrogate: 4-Bromofluorobenzene 29.47 25.0000 118 70 - 130

Surrogate: Dibromofluoromethane 25.86 25.0000 103 70 - 130

Surrogate: Toluene-d8 23.77 25.0000 95.1 70 - 130



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Livermore , CA 94550

Project Number : SFOBB UST Removals, E8585-02-55

Report To : John Love

Reported : 02/25/2013

Notes and Definitions

S7	Surrogate recovery was above laboratory acceptance limit. Chromatogram shows high concentration of heavy hydrocarbons.
S4	Surrogate was diluted out.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

- Notes:
- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
 - (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY RECORD

Pg 1 of 1



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____

Method of Transport

Client ☐
ATL ☐
CA OverN ☐
FEDEX ☐
Other: GS

Sample Condition Upon Receipt

1. CHILLED 2.5 Y ☒ N ☐ 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: GEOCON CONSULTANTS, INC.

Attn: John Love

Address: 6671 Brisa Street

City Livemore

State CA

Zip Code 94550

TEL: (925) 371-5900

FAX: (925) 371-5915

Project Name: SFOBB UST Removals

Project #: E8585-02-55

Sampler: (Printed Name) J. Love

Relinquished by: (Signature and Printed Name) J. Love

Date: 2/15/13

Time: 16:30

Received by: (Signature and Printed Name) FDIWD

Date: 2/16/13

Time: 0810

Relinquished by: (Signature and Printed Name)

Date:

Time:

Received by: (Signature and Printed Name)

Date:

Time:

Relinquished by: (Signature and Printed Name)

Date:

Time:

Received by: (Signature and Printed Name)

Date:

Time:

I hereby authorize ATL to perform the work indicated below:

Project Mgr /Submitter:

J. Love

(Print Name)

Date

J. Love

Signature

Send Report To:

Attn:

Co: SAME AS ABOVE

Address

City

State

Zip

Bill To:

Attn:

Co: SAME AS ABOVE

Address

City

State

Zip

Special Instructions/Comments:

Sample/Records - Archival & Disposal

Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):

- Sample : \$2.00 / sample / mo (after 45 days)
- Records : \$1.00 / ATL workorder / mo (after 1 year)

Circle or Add
Analysis(es)
Requested

SPECIFY APPROPRIATE
MATRIX

PRESERVATION

QA/QC

RTNE ☐
CT ☐

SWRCB ☐
Logcode _____

OTHER _____

REMARKS

ITEM	LAB USE ONLY:		Sample Description			SPECIFY APPROPRIATE MATRIX										Container(s)		PRESERVATION	REMARKS					
	Batch #:	Lab No.				Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCBs)	8260B (Volatiles)	8270C (BNA)	8010B (Total Metals)	8015B (GRO) / BTEX	8015B (GRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)			SOIL	WATER	GROUND WATER	WASTEWATER	TAT
		1300539 - 01	UST #1	2/15/13	12:10						X							X			E	1	LG	
		↓	↓	↓	↓									X				X				3	VGH	
		- 02	UST #2+3		12:25						X							X				1	LG	
		↓	↓	↓	↓									X				X				3	VGH	
		↓ - 03	UST #2+3 (8')	↓	12:30						X			X		X		X			↓	1	TM	

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight
≤ 24 hr

B= Emergency
Next workday

C= Critical
2 Workdays

D= Urgent
3 Workdays

E= Routine
7 Workdays

Preservatives:

H=HCl N=HNO₃ S=H₂SO₄ C=4°C
Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal

DISTRIBUTION: White with report. Yellow to folder. Pink to submitter.



February 27, 2013

John Love
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 525-4142
Fax: (925) 371-5915



Re: ATL Work Order Number : 1300539
Client Reference : SFOBB UST Removals, E8585-02-55

Enclosed are the results for sample(s) received on February 16, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "E Rodriguez".

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Geocon Consultants, Inc.

6671 Brisa Street

Livermore , CA 94550

Project Number : SFOBB UST Removals, E8585-02-55

Report To : John Love

Reported : 02/27/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
UST #1	1300539-01	Groundwater	2/15/13 12:10	2/16/13 8:10
UST #2 & 3	1300539-02	Groundwater	2/15/13 12:25	2/16/13 8:10
UST #2 & 3 (8')	1300539-03	Soil	2/15/13 12:30	2/16/13 8:10



Certificate of Analysis

Geocon Consultants, Inc.

6671 Brisa Street

Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55

Report To : John Love

Reported : 02/27/2013

Client Sample ID UST #1

Lab ID: 1300539-01

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dibromoethane	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 16:47	
1,2-Dichloroethane	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 16:47	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>105 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 16:47</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>117 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 16:47</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 16:47</i>	
<i>Surrogate: Toluene-d8</i>	<i>110 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 16:47</i>	



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55
Report To : John Love
Reported : 02/27/2013

Client Sample ID UST #2 & 3

Lab ID: 1300539-02

Volatile Organic Compounds by EPA 8260

Analyst: SL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dibromoethane	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
1,2-Dichloroethane	ND	0.50	NA	1	B3B0351	02/18/2013	02/18/13 15:59	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 15:59</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>124 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 15:59</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 15:59</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.1 %</i>		<i>70 - 130</i>		B3B0351	02/18/2013	<i>02/18/13 15:59</i>	



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55
Report To : John Love
Reported : 02/27/2013

Client Sample ID UST #2 & 3 (8')

Lab ID: 1300539-03

Volatile Organic Compounds by EPA 8260

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dibromoethane	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
1,2-Dichloroethane	ND	5.0	NA	1	B3B0354	02/18/2013	02/18/13 12:29	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>115 %</i>		<i>70 - 130</i>		B3B0354	02/18/2013	<i>02/18/13 12:29</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>89.7 %</i>		<i>70 - 130</i>		B3B0354	02/18/2013	<i>02/18/13 12:29</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>114 %</i>		<i>70 - 130</i>		B3B0354	02/18/2013	<i>02/18/13 12:29</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.9 %</i>		<i>70 - 130</i>		B3B0354	02/18/2013	<i>02/18/13 12:29</i>	



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55
Report To : John Love
Reported : 02/27/2013

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0354 - MSVOAS

Blank (B3B0354-BLK1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	58.18		50.0000		116	70 - 130			
Surrogate: 4-Bromofluorobenzene	44.18		50.0000		88.4	70 - 130			
Surrogate: Dibromofluoromethane	53.15		50.0000		106	70 - 130			
Surrogate: Toluene-d8	48.30		50.0000		96.6	70 - 130			

LCS (B3B0354-BS1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	43.8000	5.0	50.0000		87.6	70 - 130			
Benzene	95.4600	5.0	100.000		95.5	70 - 130			
Chlorobenzene	51.1200	5.0	50.0000		102	70 - 130			
MTBE	48.5000	5.0	50.0000		97.0	70 - 130			
Toluene	100.200	5.0	100.000		100	70 - 130			
Trichloroethene	49.8000	5.0	50.0000		99.6	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	58.08		50.0000		116	70 - 130			
Surrogate: 4-Bromofluorobenzene	48.36		50.0000		96.7	70 - 130			
Surrogate: Dibromofluoromethane	51.82		50.0000		104	70 - 130			
Surrogate: Toluene-d8	50.46		50.0000		101	70 - 130			

LCS Dup (B3B0354-BSD1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	42.7200	5.0	50.0000		85.4	70 - 130	2.50	20	
Benzene	93.0200	5.0	100.000		93.0	70 - 130	2.59	20	
Chlorobenzene	50.3000	5.0	50.0000		101	70 - 130	1.62	20	
MTBE	48.2100	5.0	50.0000		96.4	70 - 130	0.600	20	
Toluene	98.6600	5.0	100.000		98.7	70 - 130	1.55	20	
Trichloroethene	48.6300	5.0	50.0000		97.3	70 - 130	2.38	20	
Surrogate: 1,2-Dichloroethane-d4	59.17		50.0000		118	70 - 130			
Surrogate: 4-Bromofluorobenzene	49.31		50.0000		98.6	70 - 130			
Surrogate: Dibromofluoromethane	53.72		50.0000		107	70 - 130			
Surrogate: Toluene-d8	51.29		50.0000		103	70 - 130			

Matrix Spike (B3B0354-MS1)

Source: 1300539-03

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	46.2900	5.0	50.0000	ND	92.6	70 - 130			
Benzene	98.8800	5.0	100.000	ND	98.9	70 - 130			
Chlorobenzene	54.0300	5.0	50.0000	ND	108	70 - 130			
MTBE	51.9200	5.0	50.0000	ND	104	70 - 130			
Toluene	104.780	5.0	100.000	ND	105	70 - 130			
Trichloroethene	52.7300	5.0	50.0000	ND	105	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	58.59		50.0000		117	70 - 130			



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55
Report To : John Love
Reported : 02/27/2013

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0354 - MSVOAS (continued)

Matrix Spike (B3B0354-MS1) - Continued

Source: 1300539-03

Prepared: 2/18/2013 Analyzed: 2/18/2013

Surrogate: 4-Bromofluorobenzene	50.50		50.0000		101	70 - 130			
Surrogate: Dibromofluoromethane	54.23		50.0000		108	70 - 130			
Surrogate: Toluene-d8	49.90		50.0000		99.8	70 - 130			

Matrix Spike Dup (B3B0354-MSD1)

Source: 1300539-03

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	46.3200	5.0	50.0000	ND	92.6	70 - 130	0.0648	20	
Benzene	97.7100	5.0	100.000	ND	97.7	70 - 130	1.19	20	
Chlorobenzene	52.6700	5.0	50.0000	ND	105	70 - 130	2.55	20	
MTBE	50.2400	5.0	50.0000	ND	100	70 - 130	3.29	20	
Toluene	104.630	5.0	100.000	ND	105	70 - 130	0.143	20	
Trichloroethene	51.9600	5.0	50.0000	ND	104	70 - 130	1.47	20	
Surrogate: 1,2-Dichloroethane-d4	57.10		50.0000		114	70 - 130			
Surrogate: 4-Bromofluorobenzene	49.61		50.0000		99.2	70 - 130			
Surrogate: Dibromofluoromethane	55.07		50.0000		110	70 - 130			
Surrogate: Toluene-d8	52.09		50.0000		104	70 - 130			



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55
Report To : John Love
Reported : 02/27/2013

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0351 - MSVOAW_LL

Blank (B3B0351-BLK1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	27.19		25.0000		109	70 - 130			
Surrogate: 4-Bromofluorobenzene	27.28		25.0000		109	70 - 130			
Surrogate: Dibromofluoromethane	27.58		25.0000		110	70 - 130			
Surrogate: Toluene-d8	24.02		25.0000		96.1	70 - 130			

LCS (B3B0351-BS1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	17.0400		20.0000		85.2	70 - 130			
Benzene	38.9900		40.0000		97.5	70 - 130			
Chlorobenzene	21.0000		20.0000		105	70 - 130			
MTBE	14.3500		20.0000		71.8	70 - 130			
Toluene	46.9800		40.0000		117	70 - 130			
Trichloroethene	19.9400		20.0000		99.7	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	23.29		25.0000		93.2	70 - 130			
Surrogate: 4-Bromofluorobenzene	26.13		25.0000		105	70 - 130			
Surrogate: Dibromofluoromethane	24.36		25.0000		97.4	70 - 130			
Surrogate: Toluene-d8	27.51		25.0000		110	70 - 130			

LCS Dup (B3B0351-BSD1)

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	15.7600		20.0000		78.8	70 - 130	7.80	20	
Benzene	37.7400		40.0000		94.4	70 - 130	3.26	20	
Chlorobenzene	20.7000		20.0000		104	70 - 130	1.44	20	
MTBE	15.3200		20.0000		76.6	70 - 130	6.54	20	
Toluene	45.2200		40.0000		113	70 - 130	3.82	20	
Trichloroethene	19.0100		20.0000		95.0	70 - 130	4.78	20	
Surrogate: 1,2-Dichloroethane-d4	23.40		25.0000		93.6	70 - 130			
Surrogate: 4-Bromofluorobenzene	25.35		25.0000		101	70 - 130			
Surrogate: Dibromofluoromethane	24.39		25.0000		97.6	70 - 130			
Surrogate: Toluene-d8	26.58		25.0000		106	70 - 130			

Duplicate (B3B0351-DUP1)

Source: 1300539-02

Prepared: 2/18/2013 Analyzed: 2/18/2013

1,1-Dichloroethene	ND	0.50		ND	NR			20	
Benzene	ND	0.50		ND	NR			20	
Chlorobenzene	ND	0.50		ND	NR			20	
MTBE	0.500000	0.50		0.420000	NR		17.4	20	
Toluene	1.22000	0.50		1.30000	NR		6.35	20	
Trichloroethene	ND	0.50		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	25.40		25.0000		102	70 - 130			
Surrogate: 4-Bromofluorobenzene	29.47		25.0000		118	70 - 130			
Surrogate: Dibromofluoromethane	25.86		25.0000		103	70 - 130			



Certificate of Analysis

Geocon Consultants, Inc.

6671 Brisa Street

Livermore, CA 94550

Project Number : SFOBB UST Removals, E8585-02-55

Report To : John Love

Reported : 02/27/2013

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3B0351 - MSVOAW_LL (continued)

Duplicate (B3B0351-DUP1) - Continued

Source: 1300539-02

Prepared: 2/18/2013 Analyzed: 2/18/2013

Surrogate: Toluene-d8

23.77

25.0000

95.1

70 - 130



Certificate of Analysis

Geocon Consultants, Inc.

6671 Brisa Street

Livermore , CA 94550

Project Number : SFOBB UST Removals, E8585-02-55

Report To : John Love

Reported : 02/27/2013

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

- Notes:
- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
 - (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Diane Galvan

From: John Love [love@geoconinc.com]
Sent: Wednesday, February 27, 2013 9:53 AM
To: Diane Galvan
Subject: FW: Results/EDD/Invoice - SFOBB UST Removals (1300539)
Attachments: 1300539.pdf

Hi Diane:

Can I get ATL to additionally analyze the above groundwater and soil samples for 1,2-DCA and EDB? Can it be done using the existing chromatograph?

The hold time expires on the 29th if we need to reanalyze.

Let me know .

Thanks.



John Love, PG | Senior Project Geologist
Geocon Consultants, Inc.

6671 Brisa Street, Livermore, California 94550
Tel 925.371.5900 ext. 407 Direct 925.961.5276 Mobile 925.525.4142
www.geoconinc.com



Analytical Report

GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550	Client Project ID: #E8585-02-55; SFOBB UST Removals	Date Sampled: 02/14/13
		Date Received: 02/14/13
	Client Contact: John Love	Date Reported: 02/15/13
	Client P.O.:	Date Completed: 02/15/13

WorkOrder: 1302389

February 15, 2013

Dear John:

Enclosed within are:

- 1) The results of the **2** analyzed samples from your project: **#E8585-02-55; SFOBB UST Removals**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

RUSH

TURN AROUND TIME: RUSH ☒ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAY ☐

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐; Claim # _____

Report To: John Love

Bill To: same

Company: Gecon Consultants

E-Mail: love@geconinc.com

Tele: (925) 371-5900 ext. 407

Fax: (925) 377-5915

Project #: E8585-02-55

Project Name: SFOBB UST Removals

Project Location: Bay Bridge, Oakland

Purchase Order#

Sampler Signature: *[Signature]*

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED		BTEX & TPH as Gas (8021/8015 or 8260) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	MTBE / BTEX ONLY (EPA 8260/8021)	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)	LUFT 5 Metals (200.8 / 6020)	Metals (200.8 / 6020)	Filter sample for DISSOLVED metals analysis	Begin STLC
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea / Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other																
Composite A thru D		2/14/13	8:40	4					X							X	X	X									X				X
Composite E thru H		2/14/13	12:45	4					X							X	X	X									X				X

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: *[Signature]*

Date:

Time:

Received By: *[Signature]*

ICE/12.9

COMMENTS:

Relinquished By:

Date:

Time:

Received By:

GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

Relinquished By:

Date:

Time:

Received By:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION pH<2



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1302389

ClientCode: GECL

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☐ EQulS☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

Report to:

John Love
 GEOCON Env. Consultants
 6671 Brisa St
 Livermore, CA 94550
 925-371-5900 FAX: 925-371-5915

Email: love@geoconinc.com; Livermore@geoconinc.com
 cc:
 PO:
 ProjectNo: #E8585-02-55; SFOBB UST Removals

Bill to:

Accounts Payable
 GEOCON Env. Consultants
 6671 Brisa St
 Livermore, CA 94550

Requested TAT:

1 day

Date Received: 02/14/2013*Date Printed:* 02/14/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1302389-001	Comp A-D	Soil	2/14/2013 8:40	<input type="checkbox"/>	A	A	A	A								
1302389-002	Comp E-H	Soil	2/14/2013 12:45	<input type="checkbox"/>	A	A	A	A								

Test Legend:

1	5520E_SG_S	2	CAM17MS_S	3	G-MBTEx_S	4	TPH(D)_S	5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments: 24hr Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **GEOCON Env. Consultants**

Date and Time Received: **2/14/2013 1:29:04 PM**

Project Name: **#E8585-02-55; SFOBB UST Removals**

Login Reviewed by: **Maria Venegas**

WorkOrder N°: **1302389**

Matrix: Soil

Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

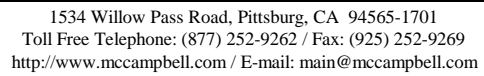
Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 12.9°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Comments:





GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550	Client Project ID: #E8585-02-55; SFOBB UST Removals	Date Sampled: 02/14/13
	Client Contact: John Love	Date Received 02/14/13
	Client P.O.:	Date Extracted 02/14/13
		Date Analyzed 02/15/13

CAM / CCR 17 Metals*

Lab ID	1302389-001A	1302389-002A			Reporting Limit for DF = 1; ND means not detected above the reporting limit	
Client ID	Comp A-D	Comp E-H				
Matrix	S	S			S	W
Extraction Type	TOTAL	TOTAL			mg/Kg	mg/L

ICP Metals, Concentration*

Analytical Method: SW6020

Extraction Method: SW3050B

Work Order: 1302389

Dilution Factor	1	1			1	1
Antimony	0.65	ND			0.5	NA
Arsenic	2.1	2.0			0.5	NA
Barium	57	58			5.0	NA
Beryllium	ND	ND			0.5	NA
Cadmium	ND	ND			0.25	NA
Chromium	33	56			0.5	NA
Cobalt	7.4	7.9			0.5	NA
Copper	17	14			0.5	NA
Lead	65	15			0.5	NA
Mercury	0.061	0.054			0.05	NA
Molybdenum	ND	ND			0.5	NA
Nickel	33	52			0.5	NA
Selenium	ND	ND			0.5	NA
Silver	ND	ND			0.5	NA
Thallium	ND	ND			0.5	NA
Vanadium	45	40			0.5	NA
Zinc	54	36			5.0	NA
%SS:	104	105				

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550	Client Project ID: #E8585-02-55; SFOBB UST Removals	Date Sampled: 02/14/13
		Date Received: 02/14/13
	Client Contact: John Love	Date Extracted: 02/14/13
	Client P.O.:	Date Analyzed: 02/14/13-02/15/13

[illegible]

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

Page 7 of 12



QC SUMMARY REPORT FOR SM5520E/F

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74757

WorkOrder: 1302389

EPA Method: SM5520E/F

Extraction: SM5520E/F

Spiked Sample ID: 1302389-002A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
POG	120	2000	89.5	87.5	2.12	87.1	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 74757 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1302389-001A	02/14/13 8:40 AM	02/14/13	02/15/13 10:05 AM	1302389-002A	02/14/13 12:45 PM	02/14/13	02/15/13 10:10 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer



QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74730

WorkOrder: 1302389

EPA Method: SW6020		Extraction: SW3050B					Spiked Sample ID: 1302347-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Antimony	ND<5.0	50	96.4	95.5	1.02	99.9	75 - 125	20	75 - 125
Arsenic	ND<5.0	50	93.7	93.7	0	100	75 - 125	20	75 - 125
Barium	97	500	95.4	93.7	1.56	95.6	75 - 125	20	75 - 125
Beryllium	ND<5.0	50	85.1	85.4	0.281	93.3	75 - 125	20	75 - 125
Cadmium	ND<2.5	50	92.8	91.2	1.72	99.4	75 - 125	20	75 - 125
Chromium	110	50	NR	NR	NR	113	N/A	N/A	75 - 125
Cobalt	ND<5.0	50	85.6	86.5	0.984	94.9	75 - 125	20	75 - 125
Copper	6.3	50	105	104	0.926	97.5	75 - 125	20	75 - 125
Lead	150	50	113	107	1.26	96.6	75 - 125	20	75 - 125
Mercury	ND<0.50	1.25	102	101	1.16	112	75 - 125	20	75 - 125
Molybdenum	ND<5.0	50	95.6	93.9	1.84	102	75 - 125	20	75 - 125
Nickel	22	50	91.8	90.6	0.894	99	75 - 125	20	75 - 125
Selenium	ND<5.0	50	93.8	94.3	0.532	99.5	75 - 125	20	75 - 125
Silver	ND<5.0	50	102	100	1.42	114	75 - 125	20	75 - 125
Thallium	ND<5.0	50	86.8	86.4	0.554	93.4	75 - 125	20	75 - 125
Vanadium	34	50	86.4	86	0.311	101	75 - 125	20	75 - 125
Zinc	140	500	90.1	89.9	0.152	98	75 - 125	20	75 - 125
%SS:	108	500	102	100	2.81	112	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE									

BATCH 74730 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1302389-001A	02/14/13 8:40 AM	02/14/13	02/15/13 12:13 PM	1302389-002A	02/14/13 12:45 PM	02/14/13	02/15/13 12:18 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

 QA/QC Officer



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74658

WorkOrder: 1302389

EPA Method: SW8021B/8015Bm

Extraction: SW5030B

Spiked Sample ID: 1302260-069A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) £	ND	0.60	124	112	9.77	124	70 - 130	20	70 - 130
MTBE	ND	0.10	109	110	1.40	116	70 - 130	20	70 - 130
Benzene	ND	0.10	113	116	2.60	115	70 - 130	20	70 - 130
Toluene	ND	0.10	111	112	0.910	114	70 - 130	20	70 - 130
Ethylbenzene	ND	0.10	113	115	1.47	113	70 - 130	20	70 - 130
Xylenes	ND	0.30	118	121	2.28	121	70 - 130	20	70 - 130
%SS:	107	0.10	77	89	13.8	83	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE									

BATCH 74658 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1302389-001A	02/14/13 8:40 AM	02/14/13	02/14/13 4:36 PM	1302389-002A	02/14/13 12:45 PM	02/14/13	02/15/13 11:51 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74694

WorkOrder: 1302389

EPA Method: SW8015B

Extraction: SW3550B

Spiked Sample ID: 1302319-006A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	ND	40	145, F1	143, F1	1.44	109	70 - 130	30	70 - 130
%SS:	111	25	113	110	2.55	105	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

F1 = MS/MSD recovery was out of acceptance criteria; LCS validated the prep batch.

BATCH 74694 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1302389-001A	02/14/13 8:40 AM	02/14/13	02/14/13 3:38 PM	1302389-002A	02/14/13 12:45 PM	02/14/13	02/14/13 3:45 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer



Analytical Report

GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550	Client Project ID: #E8585-02-55; SFOBB UST Removals	Date Sampled: 02/14/13
		Date Received: 02/14/13
	Client Contact: John Love	Date Reported: 02/19/13
	Client P.O.:	Date Completed: 02/19/13

WorkOrder: 1302389 A

February 19, 2013

Dear John:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#E8585-02-55; SFOBB UST Removals,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

RUSH

TURN AROUND TIME: RUSH ☒ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAY ☐

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐; Claim # _____

Report To: John Love

Bill To: same

Company: Gecon Consultants

E-Mail: love@geconinc.com

Tele: (925) 371-5900 ext. 407

Fax: (925) 371-5915

Project #: E8585-02-55

Project Name: SFOBB UST Removals

Project Location: Bay Bridge, Oakland

Purchase Order#

Sampler Signature: *[Signature]*

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED		BTX & TPH as Gas (8021/8015 or 8260) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	MTBE / BTX ONLY (EPA 8260/8021)	EPA 505/608/8081 (CI Pesticides)	EPA 608 / 8082 PCB's; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)	LUFT 5 Metals (200.8 / 6020)	Metals (200.8 / 6020)	Filter sample for DISSOLVED metals analysis	Begin STLC	STLC added 2/15/13	STLC or 24hr
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea / Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other																		
Composite A thru D		2/14/13	8:40	4					X							X	X	X									X				X	X	X
Composite E thru H		2/14/13	12:45	4					X							X	X	X									X				X	X	X

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <i>[Signature]</i>	Date: 2/14/13	Time: 13:30	Received By: <i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/12.9
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION pH<2



CHAIN-OF-CUSTODY RECORD

 WorkOrder: 1302389 **A** ClientCode: GECL

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:

 John Love
 GEOCON Env. Consultants
 6671 Brisa St
 Livermore, CA 94550
 925-371-5900 FAX: 925-371-5915

 Email: love@geoconinc.com; Livermore@geoconinc.com
 cc:
 PO:
 ProjectNo: #E8585-02-55; SFOBB UST Removals

Bill to:

 Accounts Payable
 GEOCON Env. Consultants
 6671 Brisa St
 Livermore, CA 94550

Requested TAT:

1 day

Date Received: 02/14/2013*Date Add-On:* 02/15/2013*Date Printed:* 02/15/2013

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1302389-001	Comp A-D	Soil	2/14/2013 8:40	<input type="checkbox"/>		A										
1302389-002	Comp E-H	Soil	2/14/2013 12:45	<input type="checkbox"/>	A											

Test Legend:

1	STLC_METALS_S	2	STLC_PB_S	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments: 24hr Rush. STLC's addec 2/15/13 24hr.

 NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

GEOCON Env. Consultants

6671 Brisa St

Livermore, CA 94550

Client Project ID: #E8585-02-55;
SFOBB UST Removals

Client Contact: John Love

Client P.O.:

Date Sampled: 02/14/13

Date Received: 02/14/13

Date Extracted: 02/17/13-02/19/13

Date Analyzed: 02/19/13

ICP Metals*

Extraction method: CA Title 22

Analytical methods: SW6010B

Work Order: 1302389

Lab ID	Client ID	Matrix	Extraction Type	Chromium	DF	% SS	Comments
1302389-002A	Comp E-H	S	WET	0.18	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	WET	0.05	mg/L

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

WET = Waste Extraction Test, i.e., STLC (Soluble Threshold Limit Concentration).

DI WET = Waste Extraction Test using DI water (DI STLC).

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

GEOCON Env. Consultants

6671 Brisa St

Livermore, CA 94550

Client Project ID: #E8585-02-55;
SFOBB UST Removals

Client Contact: John Love

Client P.O.:

Date Sampled: 02/14/13

Date Received: 02/14/13

Date Extracted: 02/17/13-02/19/13

Date Analyzed: 02/19/13

Lead by ICP*

Extraction method: CA Title 22

Analytical methods: SW6010B

Work Order: 1302389

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1302389-001A	Comp A-D	S	WET	2.6	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	WET	0.2	mg/L

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

WET = Waste Extraction Test, i.e., STLC (Soluble Threshold Limit Concentration).

DI WET = Waste Extraction Test using DI water (DI STLC).

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW6010B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 74802

WorkOrder: 1302389

EPA Method: SW6010B

Extraction: CA Title 22

Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Chromium	N/A	1	N/A	N/A	N/A	103	N/A	N/A	75 - 125
Lead	N/A	1	N/A	N/A	N/A	101	N/A	N/A	75 - 125
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE									

BATCH 74802 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1302389-001A	02/14/13 8:40 AM	02/17/13	02/19/13 6:01 PM	1302389-002A	02/14/13 12:45 PM	02/17/13	02/19/13 5:59 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

APPENDIX



NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

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

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity12. Unit
Wt./Vol.1. NON-HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS)
PROFILE# 812905CA

001

CM

00015

Y

2.

3.

4.

13. Special Handling Instructions and Additional Information

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JCEW/PC# 73317
PROFILE# 812905CA
NCEB 1805 FERRY POINT, ALAMEDA, CA 94501

BIN # 3547

14. 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.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

02 22 13

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

02 22 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

Month Day Year

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

12 22 13

TRANSPORTER #1



WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA; 94551
Ph: (925) 455-7300

0001631
Ticket# 995486

Customer Name NrcEnvironment Nrc Environment Carrier GEN Altamont General
Ticket Date 02/22/2013 Vehicle# 9e89621
Payment Type Credit Account Container
Manual Ticket#
Billing # 0038257 License#

Manifest 73187-01
PO 73817
Profile 612905CA (CLASS II COVER LOW VOCs/NRCES/CAL TRANS DISTRICT 4 612905CA)
Generator 164-CalTrans20 CAL TRANS DISTRICT 4 (SAN FRANCISCO OAKLAND BAY BRIDGE)

Time	Scale	Deputy Weighmaster	Inbound	Gross	
In 02/22/2013 07:28:49	Scale 3	P Ratto		Tare	64460 lb
Out 02/22/2013 08:01:45	Scale 1	Inb J Schaeffler		Net	36780 lb
				Tons	27680 lb
					13.84

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons- 100		13.84	Tons				Oakland
2 FUEL-Fuel Surcharg 100			%				Oakland
3 EVF-L-Standard Env 100		1	Load				Oakland

DRIVER:

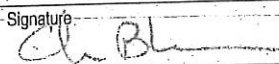
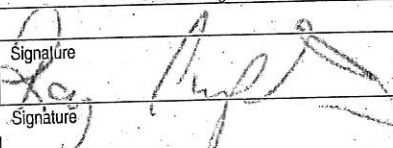
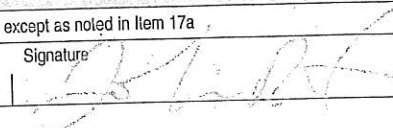
Total Tax

Total Ticket

02-22-13

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.

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CA 000193301		2. Page 1 of 1	3. Emergency Response Phone NRC 510 749-1100		4. Waste Tracking Number 73817-02 WMA	
		5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT 4 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94612		Generator's Site Address (if different than mailing address) CALTRANS DISTRICT 4 SAN FRANCISCO OAKLAND - DAY CENTER OAKLAND CA 94600				
		Generator's Phone: 510 872-8750				U.S. EPA ID Number CA 0000020114		
		6. Transporter 1 Company Name NRC ENVIRONMENTAL SERVICES INC				U.S. EPA ID Number		
		7. Transporter 2 Company Name				U.S. EPA ID Number		
		8. Designated Facility Name and Site Address Waste Management - Altamont 10840 Altamont Road Livermore CA 94550				U.S. EPA ID Number CA 0001982732		
		Facility's Phone: 925 455-7000						
		9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
				No.	Type			
GENERATOR	X	1. NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFILE# 612905CA		001	CM	00015	Y	
		2.						
		3.						
		4.						
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JCEW FOM 73817 PROF. LB# 612905CA NRCS 1805 FERRY POINT, ALAMEDA, CA 94501								
14. 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.								
		Generator's/Offor's Printed/Typed Name Chris Blodorn		Signature 		Month Day Year 02 02 13		
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:		Date leaving U.S.:			
	Transporter Signature (for exports only):							
	16. Transporter Acknowledgment of Receipt of Materials		Signature		Month Day Year			
	Transporter 1 Printed/Typed Name Larry Campbell				02 02 13			
	Transporter 2 Printed/Typed Name		Signature		Month Day Year			
DESIGNATED FACILITY	17. Discrepancy							
	17a. Discrepancy Indication Space		<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection	
	Manifest Reference Number:						U.S. EPA ID Number	
	17b. Alternate Facility (or Generator)							
	Facility's Phone:						Month Day Year	
	17c. Signature of Alternate Facility (or Generator)						Month Day Year	
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
	Printed/Typed Name John Schaeffer		Signature 		Month Day Year 02 02 13			



WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Original
Ticket# 095526

Customer Name NrcEnvironmen Nrc Environment Carrier GEN Altamont Genrie
Ticket Date 02/22/2013 Vehicle# 9e89621
Payment Type Credit Account Container
Manual Ticket#
Billing # 0038257 License#

Manifest 73817 02 wma
PO 73817
Profile 612905CA (CLASS II COVER LOW VOCS~NRCE~CAL TRANS DISTRICT 4~612905CA)
Generator 164-CalTrans20 CAL TRANS DISTRICT 4 (SAN FRANCISCO OAKLAND BAY BRIDGE)

Time	Scale	Deputy Weighmaster	Inbound	Gross	
In 02/22/2013 11:37:01	Scale 3	J Schaeuffler		Tare	60720 lb 37040 lb
Out 02/22/2013 12:02:31	Scale1 Inb	J Schaeuffler		Net	23680 lb
				Tons	11.84

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2-Cover RGC-Tons- 100		11.84	Tons				Oakland
2 FUEL-Fuel Surcharg 100			%				Oakland
3 EVF-L-Standard Env 100		1	Load				Oakland

DRIVER: 

Total Tax

Total Ticket

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.

Manifest	73817 95 UNIT
PO	73817
Profile	612000CA TELASS II COVER LOW VOC'S THREE STAR TRANS DISTRICT 4 (S129000CA)
Generator	164 CALTRANS20 CAL TRANS DISTRICT 4 (SAN FRANCISCO BAY AREA) (0000)

Time	Scale	Deputy Weighmaster	Inbound	Gross	61549 lb
In 02/22/2013 15:00:31	Scale 3	J Schaeffner		Net	36860 lb
Out 02/22/2013 15:31:17	Scale 1	Trish Rojas		Net	36049 lb
				Tons	12.32

Comments

Product	Unit	Qty	Unit	Rate	Tax	Amount	Or Item
1. C2 Cover Rof-Tone	100	12.52	Tons				Dark and
2. FUEL-Fuel Surcharg	100						Dark and
3. PVF-L-Standard Env	100		Load				Dark and

DRIVER:

10531-1427

10131	10132
-------	-------

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.

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9E75803

GENERATOR	* NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAG0020125191	2. Page 1 of 1	3. Emergency Response Phone NRC 310 719-1300	4. Waste Tracking Number 719-04			
	5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT #4 1100 PAND WAREHOUSE FLOOR 15 OAKLAND CA 94612					Generator's Site Address (if different than mailing address) CALTRANS DISTRICT #4 SAN FRANCISCO OAKLAND - BAY BRIDGE OAKLAND CA 94608			
	Generator's Phone: 510-322-8700					U.S. EPA ID Number			
	6. Transporter 1 Company Name NRC ENVIRONMENTAL SERVICES INC					U.S. EPA ID Number			
	7. Transporter 2 Company Name					U.S. EPA ID Number			
TRANSPORTER	8. Designated Facility Name and Site Address Waste Management - Alameda 10340 Alameda Road Livermore CA 94550 Facility's Phone: 925-465-7300					U.S. EPA ID Number			
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.			
			No.	Type					
	1. NON-HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFILE# 612905CA		001	CM	00015				
	2.								
DESIGNATED FACILITY	3.								
	4.								
	13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JCE# FOM: 73817 PROFILE# 612905CA MOSES 1805 FERRY POINT, ALAMEDA, CA 94601 Bin # 3531								
	14. 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.								
	Generator's/Officer's Printed/Typed Name Chris Blodgett					Signature Ch BL	Month 02	Day 25	Year 13
DESIGNATED FACILITY	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:								
	16. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name David Bellows					Signature [Signature]	Month 02	Day 25	Year 13
	Transporter 2 Printed/Typed Name					Signature	Month	Day	Year
	17. Discrepancy								
DESIGNATED FACILITY	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	Manifest Reference Number: U.S. EPA ID Number								
	17b. Alternate Facility (or Generator)								
	Facility's Phone: Month Day Year								
	17c. Signature of Alternate Facility (or Generator)								
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a									
Printed/Typed Name [Signature]					Signature [Signature]	Month 12	Day 25	Year 13	



WEIGHMASTER Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Origin
Ticket# 955655

Customer Name NrcEnvironment Nrc Environment Carrier GEN Altamont General
Ticket Date 02/25/2013 Vehicle# 9e75863
Payment Type Credit Account Container
Manual Ticket#
Billing # 0038257 License#

Manifest 73817-04
PO 73817
Profile 612905CA (CLASS II COVER LOW VOCs~NRCS~CAL TRANS DISTRICT 4~612905CA)
Generator 164-CalTrans20 CAL TRANS DISTRICT 4 (SAN FRANCISCO OAKLAND BAY BRIDGE)

Time	Scale	Deputy Weighmaster	Inbound	Gross	
In 02/25/2013 11:54:07	Scale 3	P Ratio		Tare	68040 lb
Out 02/25/2013 12:15:21	Scale 1	InbP Ratio		Net	37340 lb
				Tons	30700 lb
					15.35

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	C2-Cover RGC-Tons-	100	15.35	Tons				Oakland
2	FUEL-Fuel Surcharg	100		%				Oakland
3	EVE-L-Standard Env	100	1	Load				Oakland

DRIVER:

Total Tax

Total Ticket

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.

9E75803

001320

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CALC000795351		2. Page 1 of 1		3. Emergency Response Phone NRC 810 714-1191		4. Waste Tracking Number 73311-025					
5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT #4 111 GRANT AVENUE FLOOR 10 OAKLAND CA 94612					Generator's Site Address (if different than mailing address) CALTRANS DISTRICT #4 SAN FRANCISCO OAKLAND - GAY BATT BE. OAKLAND CA 94606								
Generator's Phone: 910 402-3550					U.S. EPA ID Number CALC000795351								
6. Transporter 1 Company Name NRC ENVIRONMENTAL SERVICES INC					U.S. EPA ID Number								
7. Transporter 2 Company Name					U.S. EPA ID Number								
8. Designated Facility Name and Site Address Waste Management - Alameda 10040 Alameda Road Livermore CA 94550					U.S. EPA ID Number CALC000795351								
Facility's Phone: 925 458 7300													
9. Waste Shipping Name and Description					10. Containers		11. Total Quantity	12. Unit Wt./Vol.					
					No.	Type							
<div style="display: flex; align-items: center;"> <div style="width: 30px; text-align: center; border: 1px solid black; margin-right: 5px;">X</div> <div>1. NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFIL# 812905CA</div> </div>					001	CM	00015	Y					
					2.								
					3.								
					4.								
13. Special Handling Instructions and Additional Information YEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB# FOR: 73817 PROFIL# 812905CA NRCES 1005 FERRY POINT, ALAMEDA, CA 94601 <div style="float: right; font-size: 1.2em;">BIN # 3551</div>													
14. 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.													
Generator's/Offero's Printed/Typed Name Chris Bladen					Signature <i>Chris Bladen</i>		Month Day Year 02 22 13						
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:													
16. Transporter Acknowledgment of Receipt of Materials													
Transporter 1 Printed/Typed Name John Connerman					Signature <i>John Connerman</i>		Month Day Year 02 22 13						
Transporter 2 Printed/Typed Name					Signature		Month Day Year						
17. Discrepancy													
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection													
					Manifest Reference Number:								
17b. Alternate Facility (or Generator)					U.S. EPA ID Number								
Facility's Phone:					Month Day Year								
17c. Signature of Alternate Facility (or Generator)					Month Day Year								
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a													
Printed/Typed Name John Schout He					Signature <i>John Schout He</i>		Month Day Year 02 22 13						

GENERATOR

TRANSPORTER

DESIGNATED FACILITY



WEIGHMASTER-Altamont Landfill & PRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Original
Ticket# 90054

Customer Name: NRC Environmental Nrc Environment Carrier: GEN Altamont Generic
Ticket Date: 02/22/2013 Vehicle#: 9e75803
Payment Type: Credit Account Container:
Manual Ticket#
Billing #: 0038257 License#

Manifest: 73917 05wma
PO: 73817
Profile: 612905CA (CLASS II COVER LOW VOCs NRCES CAL TRANS DISTRICT 4 612905CA)
Generator: 164-CalTrans20 CAL TRANS DISTRICT 4 (SAN FRANCISCO OAKLAND BAY BRIDGE)

Time	Scale	Deputy Weighmaster	Inbound	Gross	
In 02/22/2013 12:22:26	Scale 3	J Schaeuffler		Tare	37340 lb
Out 02/22/2013 12:54:29	Scale 1	InbM Pena		Net	25260 lb
				Tons	12.63

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Cover RGC-Tons- 100		12.63	Tons				Oakland
2 FUEL-Fuel Surcharg 100			%				Oakland
3 EVF-L-Standard Env 100		1	Load				Oakland

DRIVER: _____

Total Tax

Total Ticket

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.

Per - 100

404WMCA

166 800

9E75803

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number	
	Generator's Name and Mailing Address DEWAKHATH OF ENVIRONMENTAL CALIFORNIA 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94612 Generator's Phone: 510 623-8750				
	6. Transporter 1 Company Name NRC ENVIRONMENTAL SERVICES INC		U.S. EPA ID Number CAR000030114		
	7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address Waste Management - Alameda 10840 Alameda Road Livermore CA 94550 Facility's Phone: 925 455-7300					U.S. EPA ID Number CAD081382732
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
	1. NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFILE# 012905CA		001	TCM	00015
	2.				
	3.				
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT PROFILE# 812905CA NRCES 1605 FERRY POINT, ALAMEDA, CA 94501 Bin # 3011					
14. 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.					
INT'L	15. International Shipments		Signature		Month Day Year
	<input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Chris Bladsoc		2 22 13
	Port of entry/exit: Date leaving U.S.:				
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials		Signature		Month Day Year
	Transporter 1 Printed/Typed Name John Cannon		Signature		2 22 13
DESIGNATED FACILITY	17. Discrepancy		Manifest Reference Number:		
	17a. Discrepancy Indication Space		U.S. EPA ID Number		
	<input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
	17b. Alternate Facility (or Generator)				
Facility's Phone:		Month Day Year			
17c. Signature of Alternate Facility (or Generator)					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name PLU RATTI		Signature		Month Day Year 2 25 13	

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number 612005CA	2. Page 1 of 1	3. Emergency Response Phone BSC 610 740 1390	4. Waste Tracking Number 73817 07 WMLA
5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT #4 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94612 Generator's Phone: 415 862-6700			Generator's Site Address (if different than mailing address) CALTRANS DISTRICT #4 SAN FRANCISCO OAKLAND - BAY BRIDGE OAKLAND CA 94608		
6. Transporter 1 Company Name ARC ENVIRONMENTAL SERVICES INC.				U.S. EPA ID Number 73817 07 WMLA	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address Waste Management - Altamont 10940 Altamont Road Livermore CA 94550 Facility's Phone: 925 105 7200				U.S. EPA ID Number 612005CA	
9. Waste Shipping Name and Description 1. NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFILE# 612005CA			10. Containers		11. Total Quantity
			No.	Type	
			001	CM	00015
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB# POW: 73817 PROFILE# 612005CA NRCS 1005 FERRY POINT, ALAMEDA, CA. 94501 Bin # 3526					
14. 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.					
Generator's/Officer's Printed/Typed Name Ch Blodgett			Signature Ch Blodgett		Month Day Year 02 25 13
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name DAVID DOLLINS			Signature DAVID DOLLINS		Month Day Year 02 25 13
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Paul Kotto			Signature Paul Kotto		Month Day Year 02 25 13



WEIGHMASTER-Altamont Landfill & RRF
10840 Altamont Pass Road
Livermore, CA, 94551
Ph: (925)455-7300

Original
Ticket# 0087025

Customer Name NRCEnvironment Nrc Environment Carrier GEN Altamont General
Ticket Date 02/25/2013 Vehicle# 9e89621
Payment Type Credit Account Container
Manual Ticket#
Billing # 0038257 License#

Manifest 73817-07
PO 73817
Profile 612905CA (CLASS II COVER LOW VOCs~NRCS~CAL TRANS DISTRICT 4~612905CA)
Generator 164-CalTrans20 CAL TRANS DISTRICT 4 (SAN FRANCISCO OAKLAND BAY BRIDGE)

Time	Scale	Deputy Weighmaster	Inbound	Gross	
In 02/25/2013 12:37:12	Scale 3	P Ratto		Tare	67220 lb
Out 02/25/2013 13:13:16	Scale 1	InhJ Schaeuffler		Net	37340 lb
				Tons	29880 lb
					14.94

Comments

	Product	LD%	Qty	UOH	Rate	Tax	Amount	Origin
1	C2 Cover RGC-Tons-	100	14.94	Tons				Oakland
2	FUEL-Fuel Surcharg	100		%				Oakland
3	EVF-L-Standard Env	100	1	Load				Oakland

DRIVER:

Total Tax

Total Ticket

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.

7E/3803

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number 2010001903001	2. Page 1 of 1	3. Emergency Response Phone NRC 510 740-1300	4. Waste Tracking Number 78817-01 MAY 1994	
5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT #4 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94612				Generator's Site Address (if different than mailing address) CALTRANS DISTRICT #4 SAN FRANCISCO OAKLAND - BAY BRIDGE OAKLAND CA 94603		
Generator's Phone: 510 872-8250				U.S. EPA ID Number		
6. Transporter 1 Company Name NRC ENVIRONMENTAL SERVICES INC				U.S. EPA ID Number CA000020114		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY ENVIRONMENTAL SOLUTIONS-HAY RO 6428 HAY ROAD VACAVILLE CA 95687				U.S. EPA ID Number CA0001391510		
Facility's Phone: 707 678-4718						
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit WL/Vol.	
		No.	Type			
1. NON-HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFILE# J#5655		001	CM	00015		
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB# / PO# 73517 PROFILE# J#5655 INCES 1605 FERRY POINT, ALAMEDA, CA. 94501 BIN # 3214						
14. 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.						
Generator's/Offor's Printed/Typed Name Chris Bledsoe				Signature Chris Bledsoe	Month 02	Day 21
					Year 13	
TRANSPORTER	15. International Shipments		<input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:	
	Transporter Signature (for exports only):					
	16. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name John Cameron		Signature John Cameron		Month 02	Day 21
	Transporter 2 Printed/Typed Name		Signature		Year 13	
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	Manifest Reference Number:				U.S. EPA ID Number	
	17b. Alternate Facility (or Generator)					
	Facility's Phone:				Month Day Year	
	17c. Signature of Alternate Facility (or Generator)				Month Day Year	
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
	Printed/Typed Name Jerr Wilson				Signature Jerr Wilson	
					Month Day Year 02 21 13	

Ticket: 1181911

Date: 2/21/2013

Time: 10:17:32 - 11:17:58

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
5426 Hay Road Vacaville, CA 95007
Phone: (707) 576-1718
Fax: 707-590-0000
Customer: 50968/184 INDUSTRIAL S

Gross: 60080 LBS Scale
Taxes: 37720 LBS Scale
Net: 22360 LBS
Scales: 82

Profile: 5060/00L/ROHS DISTRICT # 4, 1

Origin	Materials & Services	Quantity	Rate	Amount
OAK/Oakland	SOIL/VOC Soil	11.18 @	\$15.00 per Ton	\$167.70

Total Amount: \$167.70

Shilo Larsen

9E89621

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAL000105351	2. Page 1 of 1	3. Emergency Response Phone NRC 510 748-1390	4. Waste Tracking Number 73817-02 HAY ROAD	
	5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT#4 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94612 Generator's Phone: 510-822-2750				Generator's Site Address (If different than mailing address) CALTRANS DISTRICT#4 SAN FRANCISCO/OAKLAND - BAY BRIDGE OAKLAND CA 94608		
	6. Transporter 1 Company Name NRC ENVIRONMENTAL SERVICES INC				U.S. EPA ID Number CAL00000000114		
	7. Transporter 2 Company Name				U.S. EPA ID Number		
	8. Designated Facility Name and Site Address RECOLOGY ENVIRONMENTAL SOLUTIONS- HAY ROAD 8428 HAY ROAD VACAVILLE CA 95687 Facility's Phone: 707-870-4710				U.S. EPA ID Number CAL00010001513		
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1. NON-HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFILE# J#5668		001	CM	00015	Y	
	2.						
	3.						
4.							
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB# PO#: 73817 PROFILE# J#5668 NRCS 1805 FERRY POINT, ALAMEDA, CA 94501 Bin# 3546							
14. 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.							
Generator's/Offor's Printed/Typed Name Chris Bledsoe				Signature Chris Bledsoe	Month 02	Day 25	Year 13
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.				Port of entry/exit: Date leaving U.S.:		
	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Ray Campbell				Signature Ray Campbell	Month 02	Day 25
DESIGNATED FACILITY	17. Discrepancy						
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	17b. Alternate Facility (or Generator)				U.S. EPA ID Number		
	Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)				Month Day Year			
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name Joseph L. Smith				Signature Joseph L. Smith	Month 02	Day 25	Year 13

Ticket: 1182852

Date: 2/25/2013

Time: 07:53:08 - 08:40:28

RECOLOGY HAY ROAD

RECOLOGY HAY ROAD

6426 Hay Road Vacaville, CA 95687

Phone: (707)-678-4718

Truck: 9E89621

Customer: 53866/HRC ENVIRONMENTAL S

Gross: 62560 LBS Scale

Tare: 37040 LBS Scale

Net: 25520 LBS

Scale: H2

Profile: 5666/COLTRANS DISTRICT # 4, 1

Origin	Materials & Services	Quantity	Rate	Amount
OAK/Oakland	SOIL/VOC Soil	12.76 @	\$15.00 per Ton	\$191.40

Total Amount: \$191.40

Shilo Larsen

9E 15803

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAL000195351		2. Page 1 of 1		3. Emergency Response Phone NRC 510 749-1390		4. Waste Tracking Number 28817-03 HAY RD		
	5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION-CALTRANS DISTRICT#4 111 GRAND AVENUE FLOOR 12 OAKLAND, CA 94612 Generator's Phone: 510 822-8750					Generator's Site Address (if different than mailing address) CALTRANS DISTRICT#4 SAN FRANCISCO/OAKLAND - BAY BRIDGE OAKLAND, CA 94608					
	6. Transporter 1 Company Name HRC ENVIRONMENTAL SERVICES INC.					U.S. EPA ID Number CAR000030114					
	7. Transporter 2 Company Name					U.S. EPA ID Number					
	8. Designated Facility Name and Site Address RECOLOGY ENVIRONMENTAL SOLUTIONS-HAY RD 8428 HAY ROAD VACAVILLE CA 95687 Facility's Phone: 707 878-4718					U.S. EPA ID Number CAD981391519					
	9. Waste Shipping Name and Description					10. Containers		11. Total Quantity	12. Unit Wt./Vol.		
						No.	Type				
	X	1. NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFILE# J#58868					001	CM	00015	Y	
		2.									
		3.									
	4.										
	13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JOB# PO# 73817 PROFI LE#: J#58868 NROES 1605 FERRY POINT, ALAMEDA, CA 94501 Bin# 3524										
	14. 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.										
	Generator's/Offor's Printed/Typed Name Chris Bledsoe					Signature ch BL		Month Day Year 02 21 13			
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.										
	16. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name John Conzonie					Signature		Month Day Year 02 21 13			
	Transporter 2 Printed/Typed Name					Signature		Month Day Year			
DESIGNATED FACILITY	17. Discrepancy										
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
	Manifest Reference Number:										
	17b. Alternate Facility (or Generator)					U.S. EPA ID Number					
	Facility's Phone:										
	17c. Signature of Alternate Facility (or Generator)					Month Day Year					
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a										
	Printed/Typed Name Terrence					Signature		Month Day Year 02 22 13			

Ticket: 1182136

Date: 2/22/2013

Time: 09:01:56 -- 00:35:45

RECOLOGY HAY ROAD

RECOLOGY HAY ROAD

6406 Hay Road Vacaville, CA 95607

Phone: (707)-678-4718

Truck: 9E75803

Customer: 53868/HRC ENVIRONMENTAL S

Gross: 67880 LBS Scale

Tare: 37720 LBS Scale

Net: 30160 LBS

Scale: H2

Profile: 5666/CALTRANS DISTRICT # 4, T

Origin	Materials & Services	Quantity	Rate	Amount
OAK/Oakland	SOILV/VOC Soil	15.00 @	\$15.00 per Ton	\$225.00

Total Amount: \$226.20

Terri Wilson

9-689621

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAL 000105351	2. Page 1 of 1	3. Emergency Response Phone MSC 510 210 1300	4. Waste Tracking Number 3391104 MAY 2013	
5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT#4 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94612 Generator's Phone: 510 622-8710				Generator's Site Address (if different than mailing address) CALTRANS DISTRICT#4 SAN FRANCISCO/OAKLAND - 847 BRIDGE OAKLAND CA 94608		
6. Transporter 1 Company Name REC ENVIRONMENTAL SERVICES INC.				U.S. EPA ID Number CAL 0000030111		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY ENVIRONMENTAL SOLUTIONS- HAY RDY 8426 HAY ROAD VACAVILLE CA 94987 Facility's Phone: 707 910 4719				U.S. EPA ID Number CAL 0000021510		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
X 1. NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFILE# J#56866		001	CM	00010	Y	
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JCE# FCH: 73817 PROFILE# J#56866 NRCS 1605 FERRY POINT, ALAMEDA, CA 94601 Bin # 3552						
14. 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.						
Generator's/Offor's Printed/Typed Name Chris Blodson				Signature Chris Blodson	Month 02	Day 21
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name JG (Ans Pbe 11)				Signature JG Pbe 11	Month 02	Day 21
Transporter 2 Printed/Typed Name				Signature	Month	Day
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
17b. Alternate Facility (or Generator)				U.S. EPA ID Number		
Facility's Phone:				Month Day Year		
17c. Signature of Alternate Facility (or Generator)				Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name Blodson				Signature Blodson	Month 12	Day 21

Ticket: 1182069

Date: 7/21/2012

Time: 15:39:03 - 15:45:20

RECEIVED BY: 18800

RECEIVED BY: 18800

6426 Hwy Road Vacaville, CA 95957

Phone: (707) 476-5710

Fax: 707-476-5711

Customer: 53805 HPC ENVIRONMENTAL S

Gross: 60660 LBS Scale

Taxes: 3/340 LBS Scale

Net: 31320 LBS

Scale: HC

Profile: 5066 LULU ROPS DISTRICT R 4, 1

Origin	Materials & Services	Quantity	Rate	Amount
OAK/Oakland	SOIL/VOC Soil	15.660	\$15.00 per Ton	4234.90

Total Amount: 4234.90

Shilo Larson

7E87621

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number C A D 9 8 0 1 3 0 1 5 1 9	2. Page 1 of 1	3. Emergency Response Phone NRC 810 750-4000	4. Waste Tracking Number 2587-05 947 804	
	5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRICT IV 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94612 Generator's Phone: 510 523-8750				Generator's Site Address (if different than mailing address) CALTRANS DISTRICT IV SAN FRANCISCO/OAKLAND - BAY BRIDGE OAKLAND CA 94608		
	6. Transporter 1 Company Name NRC ENVIRONMENTAL SERVICES INC.				U.S. EPA ID Number C A D 9 8 0 1 3 0 1 5 1 9		
	7. Transporter 2 Company Name				U.S. EPA ID Number		
	8. Designated Facility Name and Site Address RECOLOGY ENVIRONMENTAL SOLUTIONS- HAY ROAD 8428 HAY ROAD VACAVILLE CA 95807 Facility's Phone: 707 678-4718				U.S. EPA ID Number C A D 9 8 1 3 0 1 5 1 9		
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt/Vol.	
			No.	Type			
	X 1. NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS) PROFILE# J#58688		0 0 1	CM	00015	Y	
	2.						
	3.						
4.							
13. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT JCDW/POA 73817 PROFILE# J#58688 NRCS 1805 FERRY POINT, ALAMEDA, CA. 94501 BIN # 3043							
14. 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.							
Generator's/Offoror's Printed/Typed Name Chris Blodsee		Signature Chris Blodsee		Month Day Year 10/21/13			
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:				
	Transporter Signature (for exports only):						
	16. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name Ray Campbell		Signature Ray Campbell		Month Day Year 10/21/13		
	Transporter 2 Printed/Typed Name		Signature		Month Day Year		
DESIGNATED FACILITY	17. Discrepancy						
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number:				U.S. EPA ID Number		
	17b. Alternate Facility (or Generator)						
	Facility's Phone:				Month Day Year		
DESIGNATED FACILITY	17c. Signature of Alternate Facility (or Generator)				Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name Jim Wilson		Signature Jim Wilson		Month Day Year 10/21/13			

Ticket #181866

Order # 181866

Order # 181866

RECEIVED BY 1000

RECEIVED BY 1000

DATE OF ORDER 01/01/09

ORDER # 181866

DATE OF ORDER 01/01/09

DATE OF ORDER 01/01/09

Order # 181866

Order # 181866

Order # 181866

Order # 181866

DATE OF ORDER 01/01/09

Order #

Order #

Materials & Services

Quantity

Rate

Amount

SOILY VOC SOIL

14.00 @ \$15.00 per Ton

\$210.00

Total Amount:

\$210.00

Shirley Larsen

APPENDIX



April 30, 2013

Mr. John Love
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Fax (925) 371-5915

Subject: Underground Storage Tank Removal Report
 Bay Bridge Toll Plaza
 Oakland, California
 Date: March 10, 2013

Dear Mr. Love:

I have reviewed and approved the above referenced document. Please submit it to the Alameda County Health Care Services Agency (ACHCSA). Should the ACHCSA require, I declare under the penalty of perjury, that to the best of my knowledge, the information contained in the attached workplan is true and correct.

If you have any questions, or need additional information, please give me a call at (510) 286-6022.

Sincerely,



Chris Bledsoe
Transportation Engineer
Office of Construction Environmental Engineering Support