

# SEISCO Engineering and Inspection Services

Professional Member

International Conference of Building Officials

1187 Ocean Avenue

Emeryville, California 94608

(510) 547-8540 FAX (510) 527-7785

Industrial, Civil, Structural and Architectural Engineering, Construction Management, Hazardous Material Removal & Remediation

Eric M. Cox, PE, SE

Structural Engineering, Construction Management

David Benaroya Helfant, Ph.D., M.ASCE, ICBO

Environmental, Seismic and Drainage Design

Structural and Engineering Inspections

Michael S. Noell, M.Arch., A.I.A.

Architecture and Planning

Ithami Karaca, PE, SE

Structural Engineering

20130

February 5, 2001

TO: Mr. Lawrence Seto, Senior Hazmat Specialist, Environmental Protection Division, ACHCSA

RE: Final Report-1. Removal of Contaminated Soils, former tank site #1, trenches at former product lines for former tank #1, removal of soils at former dispenser #2 and

2. Resampling Under Previous Tank #1, Prod. Line for #1 & #2, at former dispenser for Tank #1 and #2, and at the Groundwater Sampling Well

- 6335 San Pablo Avenue, Oakland, CA 94608, Stid 1685

Dear Mr. Seto:

As per our meetings of September 6, 2000, and October 25, 2000, and according to the specifications of the approved work plan dated 12/24/2000, we report here the findings of the resampling and over-excavation to remove contaminated soils.

According to existing documents on file, all previous County requirements were completed in 1988 during the owners' removal of two small underground gas tanks. New tests, required by the County in 1999, revealed a small residue of other contamination [by a different test for other substances not formerly required for testing by the County in 1988].

All previous tests [including test results from County closure in 1988 and this firm's sampling in July 1999] indicated that only a small area around the previous site of the 500 gallon buried tank, its dispenser and at its former product pipeline, contained contaminated soils, as did a groundwater sample from the sampling well installed 10-feet downgradient from the lowest site. [ See the attached site and sampling plan.]

Bolin's Garage

## **1. Background for Completion of Final Report:**

Two previously removed UST's (removed and closure secured in 1988) at 6335 San Pablo Avenue contained gasoline. One was a 500- gallon tank, the other a 1000- gallon tank. Each were properly inerted, removed and the metal recycled. The soil originally collected at the former locations was analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G). Additional analyses were provided in July 1999, and the tests were again duplicated during the completed procedure in January 2001. These tests were performed to determine the existence of benzene, toluene, ethyl benzene, xylene (BTEX), lead, and methyl-tert-butyl ether (MTBE).

## **2. Site Location:**

The site is the former repair shop formerly known as Bolin's Service Garage. Mr. Bolin was in the business of repairing vehicles. The former shop is located at the corner of San Pablo Avenue and 64th Street in North Oakland, near the Berkeley and Emeryville borders. The former business is accessed through 64th Street.

## **3. Site History:**

The owner operated a repair shop for 30-years, and the property has been in the family for at least this period of time. No other record of business activities is found, and the site is thought to have been largely vacant prior to the establishment of Mr. Bolin's business. The service garage had two UST's for gasoline, one a 500 gallon tank nearest the shop structure, and a second one located adjacent to a driveway. The owner had both tanks removed in 1988 under the benefit of County permit.

The sale of gasoline was not part of the business services offered at Bolin's garage and the tanks were lightly used. Upon removal and sampling >2,400 ppm TPH-G was found in the sample hole #2 below the 1,000 gallon tank adjacent to the driveway. All contaminated soils were removed and transported to an approved landfill under manifest. Site closure was granted.

## **4. Statement of Work Completed:**

The owners, in accordance with County guidelines:

.1 Completed excavation of those areas where the contamination was found as a result of the testing completed in July 1999. At these areas the excavation traced the contamination plume in the soil. The excavation and the soil removal continued until- through visual judgement that included the absence of odor and and the absence of petroleum stained soils or other indications of the presence of contaminated soils- a clean line of remaining soils was found.

In the area of the former dispenser for the smaller UST and its product pipeline

excavations proceeded. For the dispenser the excavation was done against the building where the former dispenser for UST #1 was previously located. After excavating 7.5- feet deep directly against and below the structure, and removing the contaminated soils, it was determined in conjunction with members of the County's environmental specialist team and the owners' engineers that no further excavation against the building was appropriate given the potential for undermining the structure. [ It appeared that the clean line was nearly reached when the excavation was halted for reasons of safety and the maintenance of the structural integrity of the building.]

The term "clean line" was determined in the field by judgement according to color, odor and soil characteristics. The latter is defined as the change in the character of the soil produced by the contaminants attributed to underground fuel tanks. [See site plan.] A registered geologist from a state certified analytical lab, the chief field engineer and investigator for the owner, three members of the ownership trust, two members of the County's environmental health department, and two hazmat trained workers of the licensed engineering and hazmat contractor were on hand to execute and or observe the work.

A utility backhoe and small excavator were used to excavate soils and to set such excavated soils on a 6-mil visqueen ground sheet that was covered with 6- mil plastic sheeting upon completion of the excavation. Two samples per each 20-yards of material in the spoils piles were collected and analyzed as per protocol of the licensed treatment facility, Bay Soil Remediation, Richmond, California.

.2 Previous investigations did not reveal product pipeline at the site of the 500 gallon UST [the product pipeline for the 1,000-gallon tank had been removed in 1988]. To address this, the recently completed work involved further excavation to remove the product pipeline for the 500-gallon tank, and to remove all soils viewed as contaminated through visual analysis and odor around and beneath this pipeline.

.3 Excavation at the site of the former product pipeline and the dispenser for the 1,000-gallon tank was also performed, the soils were removed and the remaining soils in the former product pipeline trench and dispenser were sampled and analyzed.

.4 The excavated soil was stockpiled and then sampled and profiled by a registered geologist employed by County approved state certified lab with six samples taken among the 55+,- yards of stockpiled soil, as per the certified disposal site that contracted with the owner for the soil remediation. A copy of all manifests are included in this report with the final analytical results.

.5 When the excavations were completed and the soils removed, the remaining soils left unexcavated were also sampled to determine that the "clean line" of remaining soil has been reached, or if not, what the profile of the remaining soil would show based on the same laboratory analysis.

In all: one sample under the former 500-gallon tank, two under its former dispenser, three under its product line, one sample under the former dispenser of the 1,000 -gallon former tank, one under its product line, and one sample of the groundwater well [after purging the well] were taken. Three composite samples of the soils spoils pile were also taken.

Sampling involved pounding brass tube lab containers with a wooden mallet into undisturbed sections of the the excavations and the spoils piles. The tubes were completely filled leaving no head space. These were capped, labeled, and immediately refrigerated and brought to the certified lab for analysis.

.1 Soil samples were collected in thin-walled stainless or brass tubes at least 5-inches long and 1.5-inches in diameter. No headspace was present in the tube once the sample was collected. Each end of the tube was covered with aluminum foil and then capped with polyethylene lid, taped, and labeled. The samples were immediately placed in an ice chest containing dry ice and kept cold at 4 degrees C] for delivery to the laboratory.

.2 The samples were tested for the presence of THP -gas, BTEX, lead, and MTBE. For MTBE the analytical laboratory used EPA method 8260. To access the soil for testing when it is covered by paving, the paving in the way was removed.

.6 The contaminated soils found were trucked under manifest to an approved disposal/treatment plant [Bay soil Remediation Center, Richmond, California] and under manifest cleaned. A report from the treatment and disposal facility is provided in this final report to illustrate approved disposal.

.7 A groundwater sample was taken at the existing groundwater sampling well. The groundwater sample and the pruging of the well prior to the sampling was performed by a registered geologist from a state certified laboratory in a manner that reduced or eliminated the possibility of loss of volatile constituents from the sample. A decontaminated teflon bailer for the groundwater sample was used to collect the sample for analysis. After completion of the sampling, the well was grouted and closed under permit to close the sampling well processed through the Alameda County Public Works [contact person, James Yoo at 510-670-6633]. Groundwater sampling proceeded as follows:

.1 A grab water sample or purged sample was collected [after temperature, conductivity and Ph has stabilized]from the groundwater sampling well. This procedure enabled the well to be emptied [contents stored in a sealed above ground 55 gal container] of the latent water in the well. The contents of this will be analyzed and disposed of by a certified liquid treatment facility. [A manifest will be provided indicating chain of command and transport.] By sampling after purging, the groundwater sample was representative of the groundwater. The sample was taken after the water level in the groundwater sampling well approached 80% of its initial level.

.2 The water sample was tested for TPH [gas], BTEX [as per laboratory procedure], lead, and MTBE. The volatile water samples were collected in VOA vials and sampled in such a manner to minimize headspace loss. The water sample for lead was filtered onsite, and collected in a glass container with nitric acid as a preservative. The samples were placed in an ice chest maintained at 4 degrees C with blue ice with care taken to prevent freezing of the water and bursting of the glass vial.

.8 The entire procedure was monitored for quality control and the results are included in this report. Please see the attached dimensioned drawing of the site indicating the depths of the samples collected, the areas where excavation took place.

.9 Upon completion of the removal of the contaminated soils, the excavated areas will be backfilled and compacted with clean imported fill.

## 6. CONCLUSIONS AND RECOMMENDATIONS:

Based on the above findings, we believe the owners have removed the contaminated soils for all practical health and environmental purposes, with little evidence of any significant remaining soil contamination, and no source of additional contamination, that would limit the use of this parcel in the manner in which the property is zoned [light industrial] .

Therefore, based on the investigation findings, including the laboratory chemical analysis of the soils and the ground water, and the manifest indicating the soils off-hauled have been transported to a licensed soils treatment facility, we recommend the disturbed portions of the property be repaved in order for the owners to regain its commercial use.

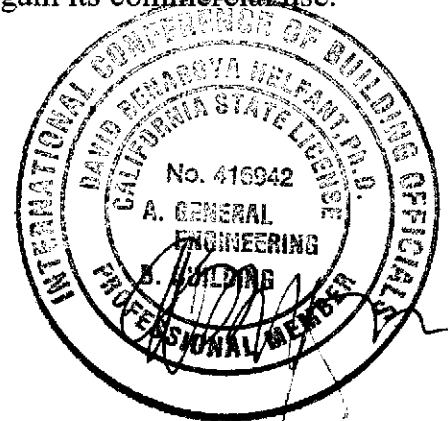
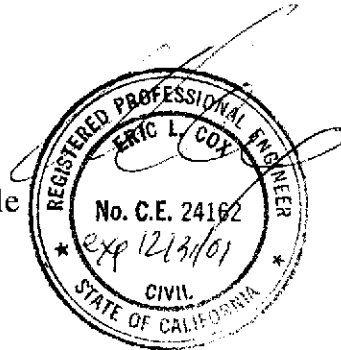
Sincerely,

  
David Benaroya Helfant, PhD, M. ASCE

Eric M. Cox, PE

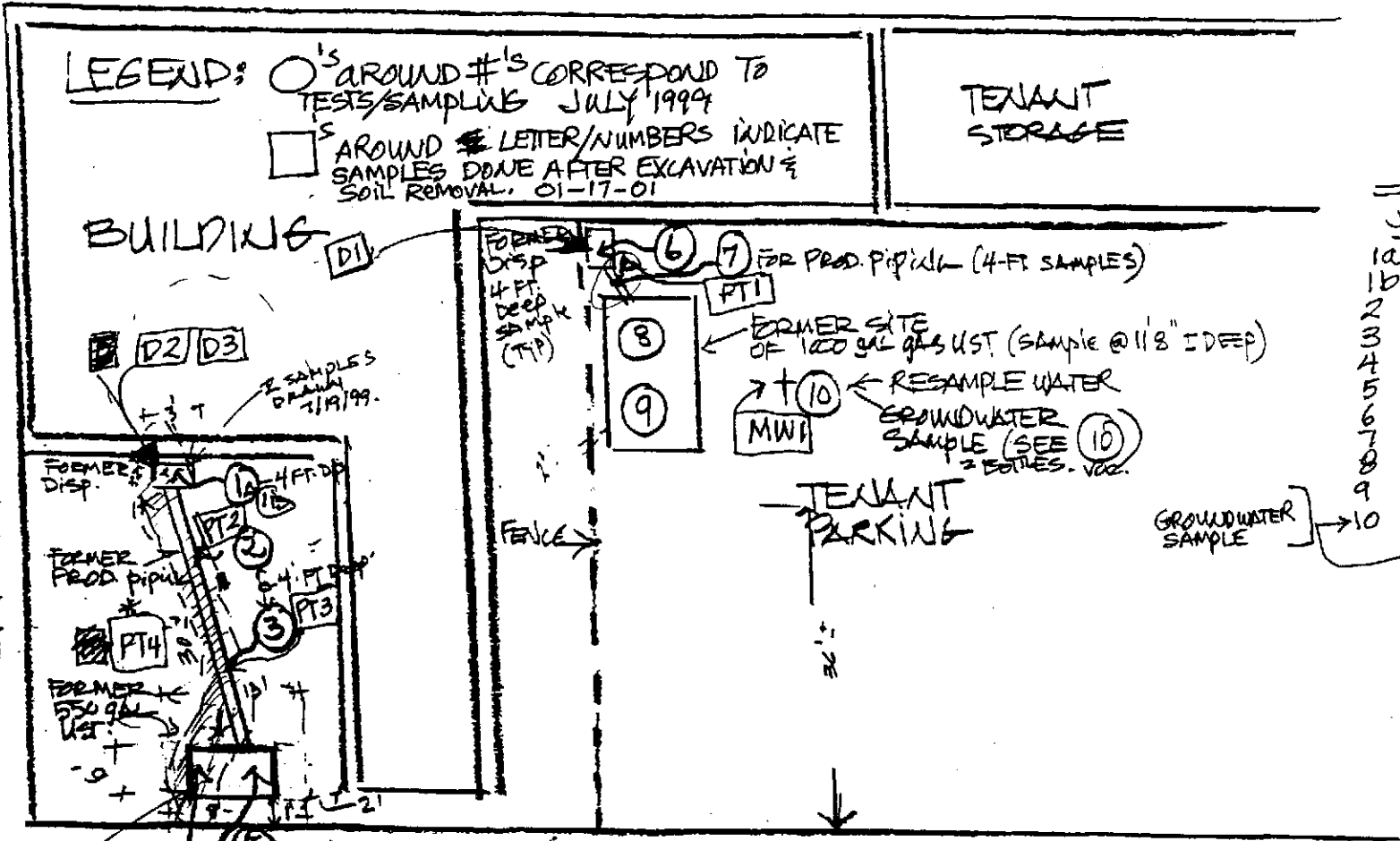
Attachment:

Site and Sampling Plan  
Analytical Laboratory Profile



02-05-01

# SITE & SAMPLING PLAN: 6335 SAN PABLO AVENUE, OAKLAND.



**LEGEND:** ○'s AROUND #'S CORRESPOND TO TESTS/SAMPLING JULY 1999  
 □'s AROUND # LETTER/NUMBERS INDICATE SAMPLES DONE AFTER EXCAVATION & SOIL REMOVAL, 01-17-01

TENANT STORAGE

ID OF SAMPLES	
JULY 1999	JAN. 17, 2001
1a	D1
1b	D2
2	D3
3	PT1
4	PT2
5	PT3
6	PT4
7	TI
8	
9	
10	MW1
	COMPOS. A
	COMP B
	COMP C

CONTAM SOIL SPOILS PILES

REMOVAL OF CONTAMINATED SOIL SITE & SAMPLING PLAN

SCALE: 1/16" = 1' OR AS NOTED

## Customer Job Report

Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Job Number	Name	SiteAddress	SiteCity	State	ZipCode
A04 -- 00854	Bolin Service Garage	6335 San Pablo Ave.	Oakland	CA	

Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
1	02/01/01 11:35			29,900M	11,620M	18,280	9.14
2	02/01/01 11:37			28,680M	14,060M	14,620	7.31
3	02/01/01 15:50			27,000M	11,620M	15,380	7.69
4	02/01/01 15:52			31,160M	14,060M	17,100	8.55
5	02/07/01 12:42			23,480M	8,240M	15,240	7.62

Completed Loads	Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:
100.00%	5	53.70%	75.00(tons)	40.31 (tons)

# Bay Soil Remediation

Non-Hazardous Soils

Date of Shipment:	Responsible for Payment: <b>Consultant</b>	Transporter Truck#:	Facility #: <b>A04</b>	Job No. <b>00854</b>	Load # <b>001</b>
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Generator's Name and Billing Address: <b>Virgil &amp; Mel Bolin</b> <b>6323 San Pablo Ave.</b>  <b>Oakland, CA 94608</b> <b>USA</b>	Generator's Phone # <b>(510) 547-8585</b>	Generator's US EPA ID NO.
	Person to Contact <b>Virgil bolin</b>	Customer Account Number: <b>4VBOLIN</b>
	FAX # <b>(510) 547-6833</b>	

Consultant's Name and Billing Address: <b>Bay Area Structural, Inc</b> <b>1185 Ocean Avenue</b>  <b>Oakland, CA 94608</b> <b>USA</b>	Consultant's Phone # <b>(510) 547-8250</b>	Generator's US EPA ID NO.
	Person to Contact <b>David Helfant</b>	Customer Account Number: <b>1004196</b>
	FAX # <b>(510) 547-8570</b>	

Generation Site (Transport from): (name & address) <b>Bolin Service Garage</b> <b>6335 San Pablo Ave.</b>  <b>USA</b>	Site Phone # <b>(925) 939-3778</b>	BTEX Levels
	Person to Contact <b>Virgil Bolin</b>	TPH Levels
	FAX # <b>(510) 547-6833</b>	AVG. Levels

Designated Facility (Transport to): (name & address) <b>Bay Soil Remediation</b> <b>20 Recycling Lane</b>  <b>Richmond, CA 94801</b> <b>USA</b>	Facility Phone # <b>510-233-8778</b>	Facility Permit Numbers
	Person to Contact <b>Debra Tachsen</b>	
	FAX # <b>510-231-4154</b>	

Transporter Name and Mailing Address:	Transporter's Phone #	Transporter's US EPS ID No.:
	Person to Contact	Transporter's DOT No.:
	FAX #	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross LBS	Tare LBS	Net LBS
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% -over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	-		200	20	180
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% -over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			200	20	180
List any exception to items listed above.							

*Generator's and/or certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name:      Generator       Consultant       Signature and date: \_\_\_\_\_      Month    Day    Year

*Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soils is being directly transported from the Generation Site to the Designated Facility without off-loading; adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name: \_\_\_\_\_      Signature and date: **HELENA R**      Month    Day    Year **02/02/01**

Discrepancies:

*Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:*

Print or Type Name: \_\_\_\_\_      Signature and date: **Debra Tachsen**      **2/2/01**

Generator and/or Consultant

Transporter

Recycling Facility



# Bay Soil Remediation

Non-Hazardous Soils

Date of Shipment:	Responsible for Payment: <b>Consultant</b>	Transporter Truck#:	Facility #: <b>A04</b>	Job No. <b>00854</b>	Load # <b>004</b>
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Generator's Name and Billing Address: <b>Virgil &amp; Mei Bolin</b> 6323 San Pablo Ave.  Oakland, CA 94608      USA	Generator's Phone # <b>(510) 547-8585</b>	Generator's US EPA ID NO.
	Person to Contact <b>Virgil bolin</b>	
	FAX # <b>(510) 547-6833</b>	Customer Account Number: <b>4VBOLIN</b>

Consultant's Name and Billing Address: <b>Bay Area Structural, Inc</b> 1185 Ocean Avenue  Oakland, CA 94608      USA	Consultant's Phone # <b>(510) 547-8250</b>	Generator's US EPA ID NO.
	Person to Contact <b>David Helfant</b>	
	FAX # <b>(510) 547-8570</b>	Customer Account Number: <b>1004196</b>

Generation Site (Transport from): (name & address) <b>Bolin Service Garage</b> 6395 San Pablo Ave.  USA	Site Phone # <b>(925) 938-3778</b>	BTEX Levels
	Person to Contact <b>Virgil Bolin</b>	TPH Levels
	FAX # <b>(510) 547-6833</b>	AVG. Levels

Designated Facility (Transport to): (name & address) <b>Bay Soil Remediation</b> 20 Recycling Lane  Richmond, CA 94801      USA	Facility Phone # <b>510-235-8778</b>	Facility Permit Numbers
	Person to Contact <b>Debra Tuchen</b>	
	FAX # <b>510-231-4154</b>	

Transporter Name and Mailing Address:	Transporter's Phone #	Transporter's US EPS ID No.:
	Person to Contact	Transporter's DOT No.:
	FAX #	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross LBS	Tare LBS	Net LBS
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% -over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			41160	60	41100
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% -over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			1110	10	1000
List any exception to items listed above.							

*Generator's and/or certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name:      Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: _____	Month    Day    Year
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*Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soils is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name: <b>D B HELFANT</b>	Signature and date: _____	Month    Day    Year
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Discrepancies:

*Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:*

Print or Type Name: _____	Signature and date: _____	Month    Day    Year
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# Bay Soil Remediation

Non-Hazardous Soils

Date of Shipment:	Responsible for Payment: <b>Consultant</b>	Transporter Truck#:	Facility #: <b>A04</b>	Job No. <b>00854</b>	Load # <b>003</b>
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Generator's Name and Billing Address: <b>Virgil &amp; Mel Bolin</b> <b>5323 San Pablo Ave.</b>  <b>Oakland, CA 94608</b> <b>USA</b>	Generator's Phone # <b>(510) 547-8585</b>	Generator's US EPA ID NO.
	Person to Contact <b>Virgil bolin</b>	
	FAX # <b>(510) 547-6833</b>	Customer Account Number: <b>4VBOLIN</b>

Consultant's Name and Billing Address: <b>Bay Area Structural, Inc</b> <b>1185 Ocean Avenue</b>  <b>Oakland, CA 94608</b> <b>USA</b>	Consultant's Phone # <b>(510) 547-8250</b>	
	Person to Contact <b>David Helfant</b>	
	FAX # <b>(510) 547-8570</b>	Customer Account Number: <b>1004136</b>

Generation Site (Transport from): (name & address) <b>Bolin Service Garage</b> <b>6335 San Pablo Ave.</b>  <b>USA</b>	Site Phone # <b>(925) 939-3778</b>	BTEX Levels
	Person to Contact <b>Virgil Bolin</b>	TPH Levels
	FAX # <b>(510) 547-6833</b>	AVG. Levels

Designated Facility (Transport to): (name & address) <b>Bay Soil Remediation</b> <b>20 Recycling Lane</b>  <b>Richmond, CA 94801</b> <b>USA</b>	Facility Phone # <b>510-235-8778</b>	Facility Permit Numbers
	Person to Contact <b>Debra Tuchaen</b>	
	FAX # <b>510-231-4154</b>	

Transporter Name and Mailing Address:	Transporter's Phone #	Transporter's US EPS ID No.:
	Person to Contact	Transporter's DOT No.:
	FAX #	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross LBS	Tare LBS	Net LBS
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% -over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			2000	200	1800
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% -over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			2000	200	1800
List any exception to items listed above.							

*Generator's and/or certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name:	Generator <input type="checkbox"/> Consultant <input checked="" type="checkbox"/>	Signature and date:	Month    Day    Year
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*Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soils is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name:	<b>DBUELFANT</b>	Signature and date:	Month    Day    Year
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Discrepancies:

*Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:*

Print or Type Name:	<b>Debra Tuchaen</b>	Signature and date:	Month    Day    Year
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# Bay Soil Remediation

Non-Hazardous Soils

Date of Shipment:	Responsible for Payment: Consultant	Transporter Truck#:	Facility #: A04	Job No. 00854	Load # 002
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Generator's Name and Billing Address: Virgil & Mel Bolin 6323 San Pablo Ave.  Oakland, CA 94608 USA	Generator's Phone # (510) 547-8585	Generator's US EPA ID NO. 4
	Person to Contact Virgil bolin	Customer Account Number: 4VBOLIN
	FAX # (510) 547-6833	

Consultant's Name and Billing Address: Bay Area Structural, Inc 1185 Ocean Avenue  Oakland, CA 94608 USA	Consultant's Phone # (510) 547-8250	Consultant's US EPA ID NO.
	Person to Contact David Helfant	Customer Account Number: 1004196
	FAX # (510) 547-8570	

Generation Site (Transport from): (name & address) Bolin Service Garage 6335 San Pablo Ave.  USA	Site Phone # (925) 939-3778	BTEX Levels
	Person to Contact Virgil Bolin	TPH Levels
	FAX # (510) 547-6833	AVG. Levels

Designated Facility (Transport to): (name & address) Bay Soil Remediation 20 Recycling Lane  Richmond, CA 94801 USA	Facility Phone # 510-231-8778	Facility Permit Numbers
	Person to Contact Debra Tuchen	
	FAX # 510-231-4154	

Transporter Name and Mailing Address:	Transporter's Phone #	Transporter's US EPS ID No.:
	Person to Contact	Transporter's DOT No.:
	FAX #	Customer Account Number:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross LBS	Tare LBS	Net LBS
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% -over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			2180	266	1914
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% -over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			14	14	0
List any exception to items listed above.							

*Generator's and/or certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name:	Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month	Day	Year
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*Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soils is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name:	Signature and date:	Month	Day	Year
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Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
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# Bay Soil Remediation

## Non-Hazardous Soils

Date of Shipment:	Responsible for Payment: Consultant	Transporter Truck#:	Facility #: A04	Job No. 00854	Load # 005			
Generator's Name and Billing Address: Virgil & Mel Bolin 6323 San Pablo Ave.  Oakland, CA 94608 USA			Generator's Phone # (510) 547-8585		Generator's US EPA ID NO.			
			Person to Contact Virgil Bolin					
			FAX # (510) 547-6833		Customer Account Number: 4780LIN			
Consultant's Name and Billing Address: Bay Area Structural, Inc 1185 Ocean Avenue  Oakland, CA 94608 USA			Consultant's Phone # (510) 547-8250					
			Person to Contact David Helfant					
			FAX # (510) 547-8570		Customer Account Number: 1004198			
Generation Site (Transport from): (name & address) Bolin Service Garage 6335 San Pablo Ave.  USA			Site Phone # (925) 929-3778		BTEX Levels			
			Person to Contact Virgil Bolin		TPH Levels			
			FAX # (510) 547-6833		AVG. Levels			
Designated Facility (Transport to): (name & address) Bay Soil Remediation 20 Recycling Lane  Richmond, CA 94801 USA			Facility Phone # 510-231-8778		Facility Permit Numbers			
			Person to Contact Debra Tuchen					
			FAX # 510-231-4154					
Transporter Name and Mailing Address:			Transporter's Phone #		Transporter's US EPS ID No.:			
			Person to Contact		Transporter's DOT No.:			
			FAX #		Customer Account Number:			
Description of Soil		Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross LBS	Tare LBS	Net LBS
Sand <input type="checkbox"/>	Organic <input type="checkbox"/>	0-10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/>	Other <input type="checkbox"/>	10-20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
		20% -over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/>	Organic <input type="checkbox"/>	0-10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/>	Other <input type="checkbox"/>	10-20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
		20% -over <input type="checkbox"/>	Other <input type="checkbox"/>					
List any exception to items listed above.								
Generator's and/or certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation site shown above and nothing has been added or done to such soil that would alter it in any way.								
Print or Type Name: Generator <input type="checkbox"/> Consultant <input type="checkbox"/>			Signature and date:			Month	Day	Year
Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soils is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.								
Print or Type Name: V D S HELFANT			Signature and date: <i>[Signature]</i>			Month	Day	Year
Discrepancies:								
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:								
Print or Type Name:			Signature and date: <i>[Signature]</i>			Month	Day	Year

Generator and/or Consultant

Transporter

Recycling Facility



# Nachtmann Analytical Laboratory, Inc.

720 Olive Drive • Davis, CA 95616 • (530) 758-5850 • Fax (530) 758-5870  
Mailing Address: P.O. Box 1025 • Davis, CA 95617

## Analytical Laboratory Report

Client: Sciesco Engineering Co.  
1187 Ocean Ave.  
Emet 7yville, CA. 94608  
Attn : Davis Helefont  
7/28/99(revised 11/26/99)

Sample ID # : 1A, 1B to #10  
Sample Location : 64th St & San pablo Ave.  
Sample Matrix : All soil, #10 water  
Sampling Date : 7/19 to 7/21/99  
Sampled By : Client  
Sample received : 7/22/99

		Sample ID#/ Conc. (ug/l) in Extract							
Analytes	MDL(ug/l)	1A	1B	#2	#3	#4	#5	#6	
TPH- Benzene	0.5	3.22	301.	27.19	17.23	< 0.5	< 0.5	< 0.5	
TPH- Toluene	0.5	1.94	2,680.	3.66	3.00	3.84	< 0.5	< 0.5	
TPH- Ethyl benzene	0.5	1.54	1,954.	19.54	2.06	< 0.5	< 0.5	< 0.5	
TPH- Xylenes(total)	0.5	5.51	14,221.	45.41	11.80	25.92	< 0.5	< 0.5	
Methyl - t - butyl ether	5.0	< 5.0	446.35	3.13	< 5.0	1.55	< 5.0	< 5.0	
		#7	#8	#9	10				
TPH- Benzene		< 0.5	< 0.5	< 0.5	284.37				
TPH- Toluene		< 0.5	< 0.5	< 0.5	9.43				
TPH- Ethyl benzene		< 0.5	< 0.5	< 0.5	< 0.5				
TPH- Xylenes(total)		< 0.5	< 0.5	< 0.5	508.8				
Methyl- t - butyl ether		< 5.0	< 5.0	< 5.0	50.37				

		Sample ID#/ Conc. (mg/kg)							
Analytes	MDL(mg/l)	1A	1B	#2	#3	#4	#5	#6	
Lead ( total ) Pb	0.02	< 1.0	1.8	< 1.0	< 1.0	1.8	2.3	3.64	
		#7	#8	#9	#10				
		11.45	4.55	6.4	5.5				

Report continued

Client: Siesco Engineering Co.  
 1187 Ocean Ave.  
 Emeryville, CA. 95608

**QC**

<u>Surrogate (BTEX)</u>	<u>% Recovery</u>
a,a,a-Trifluorotoluene	101.8

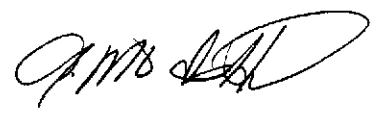
<u>Matrix Spikes</u>	<u>% Recovery</u>		<u>RPD</u>
	<u>MS # 1</u>	<u>MS # 2</u>	
Benzene	92.35	108.	16.
Toluene	99.1	103.3	4.11
Ethyl-benzene	99.1	103.4	4.2
Xylene ( total )	101.3	105.8	4.3
<b>Total Lead (Pb)</b>	<b>117</b>	<b>132</b>	<b>12.04</b>

Sample Preparations :

- For BTEX & MTBE : Equal amounts of soil samples extracted for analysis of BTEX & MTBE.
- For total Lead : Portion of soil samples dried at 107 C , sieved through 500 um sieve opening . 1.00 gram of this sieved digested in aqua regia to 50 ml of final volume for analysis .

This laboratory services performed per State of California's laboratory certification # 1419

Chemist in charge ; Ahmed Modabber



Report continued

Client: Siesco Engineering Co.  
1187 Ocean Ave.  
Emeryville, CA. 95608

7/28/99  
(revised 11/26/99)

**QC**

<u>Surrogate ( BTEX )</u>	<u>% Recovery</u>		
a,a,a-Trifluorotoluene	101.8		
<u>Matrix Spikes</u>	<u>% Recovery</u>		<u>RPD</u>
	<u>MS # 1</u>	<u>MS # 2</u>	
Benzene	92.35	108.	16.
Toluene	99.1	103.3	4.11
Ethyl-benzene	99.1	103.4	4.2
Xylene ( total )	101.3	105.8	4.3
Total Lead (Pb)	117	132	12.04

Method of Analysis for BTEX & MTBE : Sample Preparation : EPA SW 846 # 5030A  
Sample Analysis : EPA SW 846 # 8020 purge & Trap

For total Lead : Portion of soil samples dried at 107 C , sieved through 500 um sieve opening . 1.00 gram of this sieved digested in aqua regia to 50 ml of final volume for analysis . According to method # 7420

Method of Analysis for total Pb : Sample Preparation : EPA SW 846 # 3050A  
Sample Analysis : EPA SW # 7420

This laboratory services performed per State of California's laboratory certification # 1419

Chemist in charge : Ahmed Modabber



# ANALYSIS OF SAMPLES FROM EXCAVATIONS + MONITOR'S WELL AFTER



**McCAMPBELL ANALYTICAL INC.**

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

REMOVAL OF CONTAM. SOILS. JAN. 17, 2001

<b>RJ Lee Group, Inc.</b> 530 McCormick Street San Leandro, CA 94577	<b>Client Project ID: #RJLEE6176; 6335</b> San Pablo Ave	<b>Date Sampled: 01/17/2001</b>
	<b>Client Contact: Ben Schiefelbein</b>	<b>Date Received: 01/18/2001</b>
	<b>Client P.O:</b>	<b>Date Extracted: 01/18-01/19/2001</b>
		<b>Date Analyzed: 01/18-01/19/2001</b>

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\* EPA methods 8030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)**

Lab ID	Client ID	Matrix	TPH(g)*	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
58160	MW1	W	63,a	---	4.8	ND	2.2	2.2	98
<b>Reporting Limit unless otherwise stated; ND means not detected above the reporting limit</b>	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	0.005	

\* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L.

\* cluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

*Ed* Edward Hamilton, Lab Director





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Telephone : 925-798-1620 Fax : 925-798-1622  
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RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577	Client Project ID: #RJLEE6176; 6335 San Pablo Ave	Date Sampled: 01/17/2001
	Client Contact: Ben Schiefelbein	Date Received: 01/18/2001
	Client P.O.:	Date Extracted: 01/18/2001
		Date Analyzed: 01/18/2001

Methyl tert-Butyl Ether \*

EPA method 8260 modified

Lab ID	Client ID	Matrix	MTBE*	% Recovery Surrogate
58160	MW1	W	ND	104
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	1.0 ug/L	
		S	5.0 ug/kg	

\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L.  
 h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

 Edward Hamilton, Lab Director


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<b>RJ Lee Group, Inc.</b> 530 McCormick Street San Leandro, CA 94577	<b>Client Project ID: #RJLEE6176; 6335</b> San Pablo Ave	<b>Date Sampled: 01/17/2001</b>
	<b>Client Contact: Ben Schiefelbein</b>	<b>Date Received: 01/18/2001</b>
	<b>Client P.O:</b>	<b>Date Extracted: 01/18/2001</b>
		<b>Date Analyzed: 01/18/2001</b>

**Lead\***

EPA analytical methods 6010/200.7, 239.2

Lab ID	Client ID	Matrix	Extraction "	Lead*	% Recovery Surrogate
58160	MW1	W	Dissolved	ND	N/A
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLIC		3.0 mg/kg	
	W	Dissolved		0.005 mg/l.	
	---	STLC,TCLP		0.2 mg/L	

\* soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/l.

\* Lead is analyzed using EPA method 6010 (ICP) for soils, sludges, STLC &amp; TCLP extracts and method 239.2 (AA Furnace) for water samples

\* DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

\* EPA extraction methods 1311 (TCLP), 3010/3020 (water, TTLC), 3040 (organic matrices, TTLC), 3050 (solids, TTLC); STLC - CA Title 22

\* surrogate diluted out of range; N/A means surrogate not applicable to this analysis

\* reporting limit raised due matrix interference

1) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid. In accordance with EPA methodologies and can significantly effect reported metal concentrations.

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Edward Hamilton, Lab Director



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RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577	Client Project ID: #RJLEE6176; 6335 San Pablo Ave	Date Sampled: 01/17/2001
	Client Contact: Ben Schiefelbein	Date Received: 01/18/2001
	Client P.O:	Date Extracted: 01/18-01/20/2001
		Date Analyzed: 01/22/2001

EPA analytical methods 6010/200.7, 239.2\* Lead\*

Lab ID	Client ID	Matrix	Extraction *	Lead*	% Recovery Surrogate
58169	Comp A	S	STLC	0.37	N/A
58170	Comp B	S	STLC	0.99	N/A
58171	Comp C	S	STLC	0.20	N/A
Reporting limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLIC	3.0 mg/kg		
	W	TTLIC	0.005 mg/l.		
	---	STLC, TCLP	0.2 mg/l.		

\* soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L  
 \*Lead is analyzed using EPA method 6010 (ICP) for soils, sludges. STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples  
 \* DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.  
 \* EPA extraction methods 311(TCLP), 3010/3020(water, TTLIC), 3040(organic matrices, TTLIC), 3050(solids, TTLIC); STLC - CA Title 22  
 \* surrogate diluted out of range; N/A means surrogate not applicable to this analysis  
 \* reporting limit raised due matrix interference  
 i) liquid sample that contains greater than ~2 vol % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

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RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577	Client Project ID: #RJLEE6176; 6335 San Pablo Ave	Date Sampled: 01/17/2001
	Client Contact: Ben Schiefelbein	Date Received: 01/18/2001
	Client P.O:	Date Extracted: 01/18/2001
		Date Analyzed: 01/19/2001

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\***  
 EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>a</sup>	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	% Recovery Surrogate
58169	Comp A	S	83,a	ND	0.069	0.45	0.58	4.3	103
58170	Comp B	S	60,a	ND<0.10	0.31	0.13	0.26	1.0	104
58171	Comp C	S	34,a	ND	0.078	0.26	0.26	1.5	— <sup>b</sup>
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

\* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

<sup>b</sup> clustered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

 Edward Hamilton, Lab Director

# RJ LeeGroup, Inc.

530 McCormick Street • San Leandro, CA 94577  
 510/567-0480 • FAX 510/567-0488

		Client P.O:		Date Analyzed: 01/26/2001	
<b>Methyl tert-Butyl Ether *</b>					
EPA method 8260 modified					
Lab ID	Client ID	Matrix	MTBE*		% Recovery Surrogate
58169	Comp A	S	ND<25j		101
58170	Comp B	S	ND<25j		100
58171	Comp C	S	ND<25j		94
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	1.0 ug/L		
		S	5.0 ug/kg		
* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLI extracts in ug/L i) lighter than water immiscible sheen is present; j) liquid sample that contains greater than ~5 vol. % sediment; sample diluted due to high organic content.					

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RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577	Client Project ID: #RJLEE6176; 6335 San Pablo Ave	Date Sampled: 01/17/2001
	Client Contact: Ben Schiefelbein	Date Received: 01/18/2001
	Client P.O:	Date Extracted: 01/18/2001
		Date Analyzed: 01/18/2001

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\***  
 EPA methods 5030, modified 8015, and 8020 or 802; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)*	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	% Recovery Surrogate
58168	TI-6.5	S	4.3j	---	0.008	0.030	0.0063	0.028	107
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	0.005	


\* water and vapor samples are reported in ug/l., wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

\* cluttered chromatogram: sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

 Edward Hamilton, Lab Director

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	(Empty space for contact information)

RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577	Client Project ID: #RJLEE6176; 6335 San Pablo Ave	Date Sampled: 01/17/2001
	Client Contact: Ben Schiefelbein	Date Received: 01/18/2001
	Client P.O:	Date Extracted: 01/18/2001
	(Empty space)	Date Analyzed: 01/19/2001

**Methyl tert-Butyl Ether \***

TPA method 8260 modified

Lab ID	Client ID	Matrix	MTBE'	% Recovery Surrogate
58168	T1-6.5	S	ND	92
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		1.0 ug/L	
	S		5.0 ug/kg	

\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in ug/l.  
 h) lighter than water immiscible phase is present; i) liquid sample that contains greater than ~3 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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	Client P.O.:	Date Analyzed: 01/18/2001

**Lead\***

EPA analytical methods 6010/200.7, 239.2\*

Lab ID	Client ID	Matrix	Extraction °	Lead*	% Recovery Surrogate
58168	T1-6.5	S	TTLIC	20	101


Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLIC	3.0 mg/kg
	W	TTLIC	0.005 mg/L
	--	STLC,TCLP	0.2 mg/L

\* soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L  
 \* Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples  
 \* DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.  
 \* EPA extraction methods 1311(TCLP), 3010/3020(water, TTLIC), 3040(organic matrices, TTLIC), 3050(solids, TTLIC); STLC - CA Title 22  
 \* surrogate diluted out of range; N/A means surrogate not applicable to this analysis  
 \* reporting limit raised due matrix interference  
 i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

*Edward Hamilton* Edward Hamilton, Lab Director



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**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\***  
 EPA methods 5030, modified 8015, and 8020 or 802; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)*	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	% Recovery Surrogate
58164	PT1-3.0	S	ND	--	ND	ND	ND	ND	104
58165	PT2-4.0	S	20,a	--	0.53	0.069	0.39	1.3	106
58166	PT3-4.5	S	ND	--	ND	ND	ND	ND	103
58167	PT4-3.0	S	210,a	--	1.1	0.29	1.2	5.2	97
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

\* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

\* elutered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that consists greater than ~5 vol. % sediment; j) no recognizable pattern.

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	(Empty space for contact information)

RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577	Client Project ID: #RJLEB6176; 6335 San Pablo Ave	Date Sampled: 01/17/2001
	Client Contact: Ben Schiefelbein	Date Received: 01/18/2001
	Client P.O:	Date Extracted: 01/18/2001
	(Empty space)	Date Analyzed: 01/19-01/25/2001

**Methyl tert-Butyl Ether \***


EPA method 8260 modified

Lab ID	Client ID	Matrix	MTBE'	% Recovery Surrogate
58164	PT1-5.0	S	ND	93
58165	PT2-4.0	S	12	106
58166	PT3-4.5	S	6.1	94
58167	PT4-3.0	S	ND<10j	91
Reporting Limit unless otherwise stated: ND means not detected above the reporting limit	W		1.0 ug/L	
	S		5.0 ug/kg	

\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCIP / STLC / SPLP extracts in ug/l.  
 h) lighter than water (immiscible sheen is present); i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content.

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Lead*					
EPA analytical methods 6010/200.7, 239.2*					
Lab ID	Client ID	Matrix	Extraction <sup>1</sup>	Lead*	% Recovery Surrogate
58164	PT1-5.0	S	TTLC	7.2	103
58165	PT2-4.0	S	TTLC	7.0	98
58166	PT3-4.5	S	TTLC	7.0	99
58167	PT4-3.0	S	TTLC	7.1	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	3.0 mg/kg		
	W	TTLC	0.005 mg/L		
	--	STLC, TCLP	0.2 mg/L		

\* soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L.  
 \*Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples  
 \* DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.  
 \* EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC - CA Title 22  
 \* surrogate diluted out of range; N/A means surrogate not applicable to this analysis  
 \* reporting limit raised due matrix interference  
 i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

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		Date Analyzed: 01/19/2001

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether** & BTEX**									
EPA methods 8010, modified 8015, and 8020 or 8021; California RWQCR (SF Bay Region) method GCHD(5030)									
Lab ID	Client ID	Matrix	TPH(g)*	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	% Recovery Surrogate
58161	D1-S.0	S	ND	---	ND	ND	ND	ND	100
58162	D2-S.0	S	120.a	---	0.38	0.51	1.4	8.3	---
58163	D3-S.0	S	14.a	---	1.0	1.3	0.41	1.9	115
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	


\* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L  
 \*\* clustered chromatogram; sample peak overlaps with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having unusual chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

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\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L  
 h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content.

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	(Additional contact information or address)

RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577	Client Project ID: #RJLEE6176; 6335 San Pablo Ave	Date Sampled: 01/17/2001
	Client Contact: Ben Schiefelbein	Date Received: 01/18/2001
	Client P.O:	Date Extracted: 01/18/2001
	(Empty)	Date Analyzed: 01/18/2001

**Lead\***

EPA analytical methods 6010/200.7, 239.2\*

Lab ID	Client ID	Matrix	Extraction *	Lead*	% Recovery Surrogate
58161	D1-5.0	S	TTLIC	10	102
58162	D2-5.0	S	TTLIC	7.1	100
58163	D3-8.0	S	TTLIC	6.5	102
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLIC	3.0 mg/kg		
	W	TTLIC	0.005 mg/L		
	---	STLC, TCLP	0.2 mg/l.		

\* soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L  
 \* Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples  
 \* DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.  
 \* EPA extraction methods 1311(TCLP), 3010/3020(water, TTLIC), 3040(organic matrices, TTLIC), 3050(solids, TTLIC); STLC - CA Title 22  
 \* surrogate diluted out of range; N/A means surrogate not applicable to this analysis  
 \* reporting limit raised due matrix interference  
 i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

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**Methyl tert-Butyl Ether \***

EPA method 8260 modified

Lab ID	Client ID	Matrix	MTBE*	% Recovery Surrogate
58161	D1-5.0	S	ND	93
58162	D2-5.0	S	ND	82
58163	D3-8.0	S	ND	89
Reporting Limit unless otherwise stated: ND means not detected above the reporting limit	W		1.0 ug/L	
	S		5.0 ug/kg	

\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L  
 h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content.

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