



**Dennis Bates
associates**
INCORPORATED

3749

93 JAN 14 PM 5:35

12 January 1993

Mr. Bo K. Gin
Oakland Auto Parts
288 11th Street
Oakland, CA 94607

RE: 706 Harrison Street, Oakland, CA

Dear Mr. Gin:

This is a letter report to you concerning the hand-augering done at the above referenced site. A copy of this report has been forwarded, as per your request, to Ms. Jennifer Eberle of the Alameda County Department of Environmental Health, UST Local Oversight Program.

SCOPE OF ACTIVITIES

Dennis Bates Associates, Inc. has reviewed the work completed by Miller Environmental Co., (MEC) at the Harrison St. site. We understand that representatives of MEC were on site on 28 September 1992 to hand auger in the base of the existing tank excavations to determine, if possible, the depth that the gasoline hydrocarbons had migrated. An additional task was to collect four representative soil samples from each 50 cubic yards of material stockpiled on site. These samples were to be composited by the laboratory to reflect the composite values per each 50 cubic yards of material. PLATE 1 is a generalized site plan of the site as it existed on 28 September 1993.

4 discrete per 50 yds

FIELD ACTIVITIES/SAMPLE COLLECTION

MEC completed two borings, as shown on PLATE 2, which were done in the bottom of the large excavation, Excavation 1, adjacent to Harrison Street. One boring, BH-1 was advanced to 10 feet below the bottom of the excavation (about 16 feet below land surface -BLS). The auger encountered rusty brown silty fine sand. One boring, BH-2 was advanced to 12 feet at an angle of about 30 degrees towards Harrison street. The lateral distance from the bottom of BH-1 and BH-2 was calculated to be six feet. No samples were collected for laboratory analysis from BH-2 because of caving of the

26' bgs

where?

borehole walls at depths greater than six feet. We further understand that this excavation was the result of the removal of four, 1000-gallon leaded gasoline tanks and one 6000-gallon unleaded gasoline tank.

One boring, BH-3, was advanced to three feet BLS in the bottom of the excavation, Excavation 2, that is perpendicular to Harrison Street adjacent to the Shell Oil Service station at the corner of Harrison and 8 th Street. This excavation was the result of the removal of an additional 6000-gallon unleaded gasoline tank.

Samples for field analysis were collected by advancing the sand auger to the desired depth, removing the auger and placing the contents of the auger into a plastic Zip-Loc bag. The bag containing the soil was then allowed to sit at ambient temperature for 15 minutes. At the end of the 15 minute time period the bag was punctured with the probe of a Thermo Environmental OVM Photoionization detector and the volatile hydrocarbon content of the vapor recorded. The instrument was calibrated in the field using a standard gas (iso-propylene - 250 ppm).

Samples for laboratory analysis were collected by using a sampler containing a 2 inch by 6 inch brass sleeve. The sand auger was advanced to the desired depth, removed and replaced by the sampler containing the tube and the equipment advanced another six to eight inches. The sampler was removed, opened, the ends of the brass tube covered with Teflon tape, capped with plastic caps, sealed with duct tape, labeled and placed in a cooler containing Blue-Ice. Samples were then transported under chain-of-custody procedures to Mobil Chem Labs Inc., a state certified laboratory, for analysis.

Samples from the three spoils piles on-site were obtained and handled using the same methodology as described above. Four separate/discrete samples were obtained at varying depths from each 25 - 30 cubic yards (approximate) of soil. The four samples were composited by the laboratory into one for analysis.

PLATE 3 is a line drawing showing the sampling intervals and relative lateral distances between BH-1 and BH-2.

RESULTS

Analytical results of both field and laboratory measurements are presented in Table 1 following page 2 of this report.

DISCUSSION OF RESULTS

Analytical results from BH-1 indicate that gasoline range hydrocarbons have migrated vertically in the soil column to a depth of at least 10 feet below the bottom of the open excavation and at least 18 feet BLS. The angle boring, BH-2, did not exhibit qualitative indications of hydrocarbon contamination at depth, 12.5 feet. This depth approximates the bottom-hole depth of BH-1, 10 feet, and represents soil from about 6 feet towards Harrison Street (North). The OVM readings from soil obtained at depth from BH-2 did not indicate the presence of volatile hydrocarbons.

how did you do an OVM reading if you didn't collect a soil sample?

Analytical results from BH-3 indicate that Total Petroleum Hydrocarbons as Gasoline, Benzene, Toluene, Ethyl Benzene or Xylene(s) above the Method Detection Limit are not present in the soil at a depth of 2.5 -3 feet below the bottom of Excavation 2.

I don't agree

Composite analytical results from Spoils Piles 1 and 2 (SP1, SP2A and SP2B) indicate that Total Petroleum Hydrocarbons as Gasoline, Benzene, Toluene, Ethyl Benzene or Xylene(s) were not detected above the Method Detection Limit. These composite samples represent about 100 cubic yards of soil.

Composite analytical results from Spoils Pile 3 (SP3) indicate that Total Petroleum Hydrocarbons as Gasoline, Benzene, Toluene, Ethyl Benzene or Xylene(s) were not detected above the Method Detection Limit. However, Gravimetric Waste Oil as Petroleum Oil was detected at 300 parts per million (ppm). This composite sample represents about 9 cubic yards of soil.

RECOMMENDATIONS

Submit this letter report to the Alameda County Department of Environmental Health, UST Local Oversight Program.

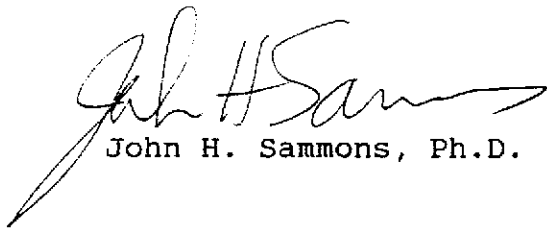
Submit a Workplan to the Alameda County Department of Environmental Health, UST Local Oversight Program that reviews past activities at the site and proposes remedial activities to bring the site to closure.

These remedial actions should:

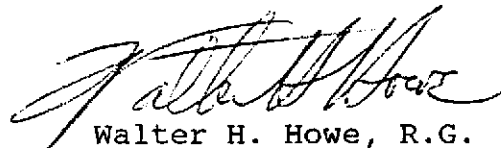
1. Address the disposal of the soil stockpiled at the site.
2. Provide a plan for the excavation and disposal of the hydrocarbon impacted soil detected in boring BH-1.
3. Specify the location, installation, development and sampling of at least one groundwater monitoring well.

As requested by you a copy of this letter along with the Attachments has been forwarded to the Alameda County Department of Environmental Health, UST Local Oversight Program.

For Dennis Bates Associates, Inc.



John H. Sammons, Ph.D.



Walter H. Howe, R.G.

TABLE 1
SOIL ANALYSIS RESULTS

bgs
↓
11'
12'
16'

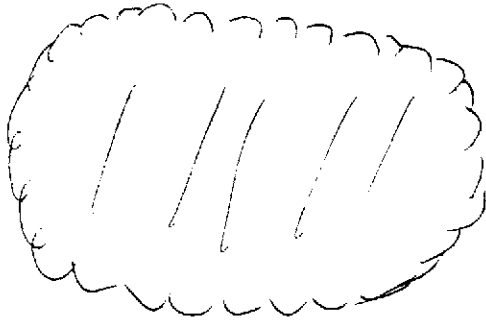
SAMP. #	DEPTH (FEET)	TPH-G (PPM)	B (PPM)	T (PPM)	EB (PPM)	X (PPM)	TOG (PPM)
BH1-3		ND	ND	ND	ND	ND	
BH1-5	5	BDL ✓	BDL ✓	BDL ✓	BDL ✓	BDL ✓	NA
BH1-6	6	1.90 ✓	0.014 ✓	0.017 ✓	0.14 ✓	0.15 ✓	NA
BH1-10	10	870 ✓	0.43 ✓	15 ✓	19 ✓	120 ✓	NA
BH3-3	5	BDL ✓	BDL ✓	BDL ✓	BDL ✓	BDL ✓	NA
SP1		BDL ✓	BDL ✓	BDL ✓	BDL ✓	BDL ✓	NA
SP2A		BDL ✓	BDL ✓	BDL ✓	BDL ✓	BDL ✓	NA
SP2B		BDL ✓	BDL ✓	BDL ✓	BDL ✓	BDL ✓	NA
SP3		BDL ✓	BDL ✓	BDL ✓	BDL ✓	BDL ✓	NA

← this is not included in lab report.
300 ✓
OK

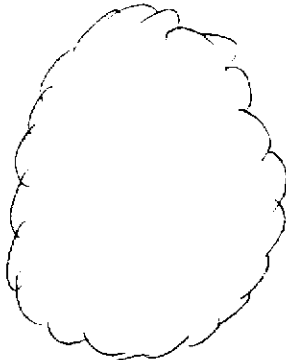
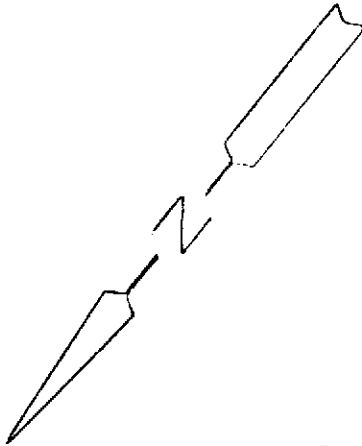
NOTES:

1. BH - DESIGNATES SAMPLE OBTAINED FROM BOREHOLE
2. SP - DESIGNATES SAMPLE OBTAINED FROM SPOILS PILE
3. TPH-G EPA METHODS 8020 (LUFT)
4. TPH-WO EPA METHOD 3550 AND SM 5520
5. PPM - PARTS PER MILLION/MILLIGRAMS PER KILOGRAM OF SOIL
6. BDL - BELOW METHOD DETECTION LIMIT

SPOILS PILE 2
[70 CY APPROX]



SPOILS PILE 3
[9 CY APPROX]



SPOILS PILE 1
[25 CY APPROX]

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Shall

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: BH3 *w/known*
: *results*
:
:
EXCAVATION 2

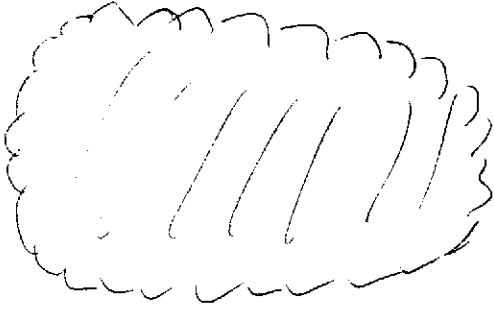
EXCAVATION 1
.....
: *BH1 → 870 ppm TPH-g at 16' bgs*
: *+ 43 ppm benz.*
:
BH2.....

HARRISON STREET

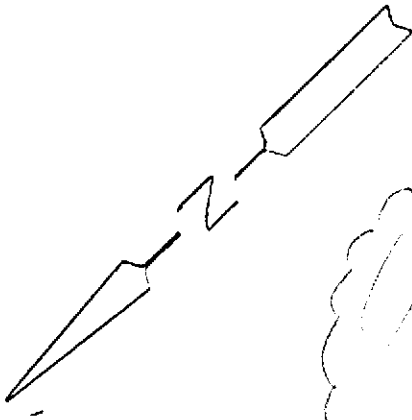
PLATE 2
BORING/BOREHOLE LOCATIONS
NOT TO SCALE

9-28-92

SPOILS PILE 2
[70 CY APPROX]



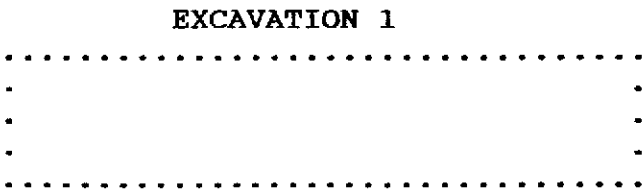
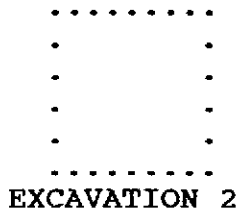
SPOILS PILE 3
[9 CY APPROX]



SPOILS PILE 1
[25 CY APPROX]

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HARRISON STREET

PLATE 1
GENERALIZED SITE PLAN
NOT TO SCALE

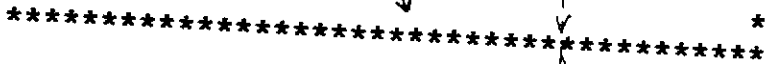
9-28-92

EXCAVATION 1

HARRISON STREET

BH-2

BH-1



8 FEET BLS

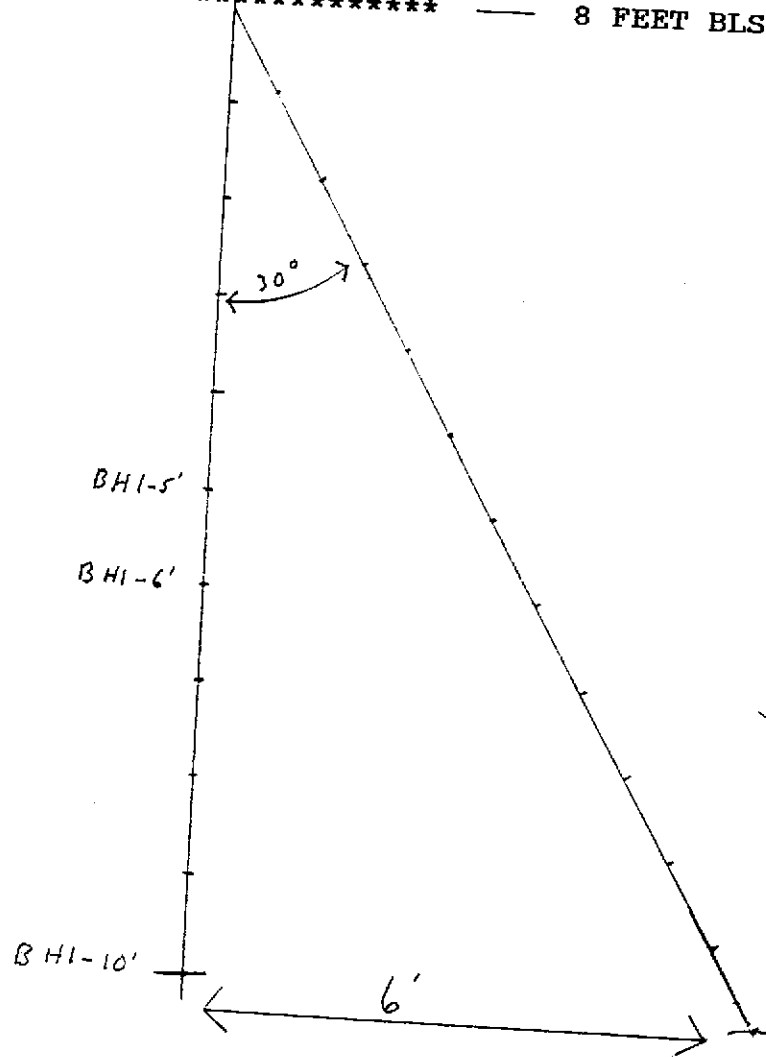
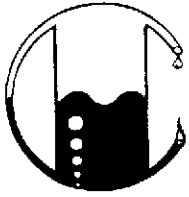


PLATE 3

SAMPLING INTERVALS AND RELATIVE LATERAL DISTANCES
BETWEEN
BORINGS BH1 AND BH2



MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

1223\012168

Miller Environmental Company
999 Anderson Drive, #120
San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: 09-28-92
Date Received: 09-28-92
Date Analyzed: 10-08-92

Sample Number

092566

Sample Description

Oakland Auto
BH1-5' SOIL

ANALYSIS

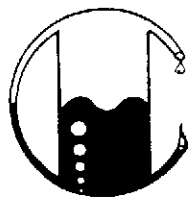
	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0 ✓
Benzene	0.005	<0.005 ✓
Toluene	0.005	<0.005 ✓
Xylenes	0.005	<0.005 ✓
Ethylbenzene	0.005	<0.005 ✓

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director



MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

1223\012168

Miller Environmental Company
999 Anderson Drive, #120
San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: 09-28-92
Date Received: 09-28-92
Date Analyzed: 10-08-92

Sample Number

092567

Sample Description

Oakland Auto
BH1-6' SOIL

ANALYSIS

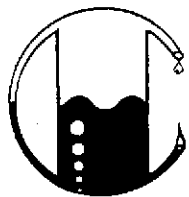
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	1.9 ✓
Benzene	0.005	0.014 ✓
Toluene	0.005	0.017 ✓
Xylenes	0.005	0.14 ✓
Ethylbenzene	0.005	0.15 ✓

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Miller Environmental Company
999 Anderson Drive, #120
San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: 09-28-92
Date Received: 09-28-92
Date Analyzed: 10-08-92

Sample Number

092568

Sample Description

Oakland Auto
BH1-10' SOIL

ANALYSIS

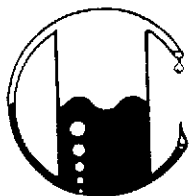
	Detection Limit	Sample Results
	----- ppm	----- ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	870
Benzene	0.005	0.43 ✓
Toluene	0.005	15 ✓
Xylenes	0.005	120 ✓
Ethylbenzene	0.005	19 ✓

QA/QC: Sample blank is none detected
Duplicate Deviation is 12.6%

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Miller Environmental Company
999 Anderson Drive, #120
San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: 09-28-92
Date Received: 09-28-92
Date Analyzed: 10-08-92

Sample Number

092565

Sample Description

Oakland Auto
BH3-3' SOIL

BH1-3'

ANALYSIS

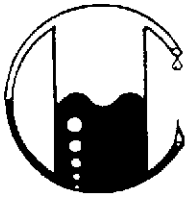
	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Miller Environmental Company
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San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: 09-28-92
Date Received: 09-28-92
Date Analyzed: 10-08-92

Sample Number

092569

Sample Description

Oakland Auto
SP1 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0 ✓
Benzene	0.005	<0.005 ✓
Toluene	0.005	<0.005 ✓
Xylenes	0.005	<0.005 ✓
Ethylbenzene	0.005	<0.005 ✓

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Miller Environmental Company
999 Anderson Drive, #120
San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: 09-28-92
Date Received: 09-28-92
Date Analyzed: 10-08-92

Sample Number

092571

Sample Description

Oakland Auto
SP2A SOIL

ANALYSIS

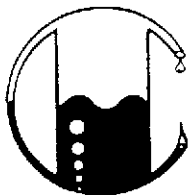
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0 ✓
Benzene	0.005	<0.005 ✓
Toluene	0.005	<0.005 ✓
Xylenes	0.005	<0.005 ✓
Ethylbenzene	0.005	<0.005 ✓

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Lab Director



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Miller Environmental Company
999 Anderson Drive, #120
San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: 09-28-92
Date Received: 09-28-92
Date Analyzed: 10-08-92

Sample Number

092572

Sample Description

Oakland Auto
SP2B SOIL

ANALYSIS

	Detection Limit	Sample Results
	----- ppm	----- ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0 ✓
Benzene	0.005	<0.005 ✓
Toluene	0.005	<0.005 ✓
Xylenes	0.005	<0.005 ✓
Ethylbenzene	0.005	<0.005 ✓

QA/QC: Sample blank is none detected
Spike Recovery is 89%

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Miller Environmental Company
999 Anderson Drive, #120
San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: 09-28-92
Date Received: 09-28-92
Date Analyzed: 10-08-92

Sample Number

092570

Sample Description

Oakland Auto
SP3 SOIL


ANALYSIS

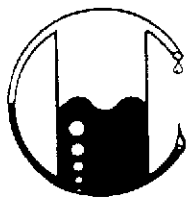
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and TPH
LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

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Miller Environmental
999 Anderson Drive, #120
San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: 09-28-92
Date Received: 09-28-92
Date Analyzed: 10-12-92

<u>Sample</u> <u>Number</u>	<u>Sample</u> <u>Description</u>	<u>Detection</u> <u>Limit</u> ppm	<u>SOIL</u> <u>Gravimetric Waste Oil</u> <u>as Petroleum Oil</u> ppm
--------------------------------	-------------------------------------	---	---

Oakland Auto

092570 SP3

10

300

QA/QC: Freon Blank is none detected.
Spike Recovery is 105%
Duplicate Deviation is 9%

Note: Analysis was performed using EPA extraction method 3550
with Trichlorotrifluoroethane as solvent, and gravimetric
determination by standard methods 5520
(ppm) = (mg/kg)

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Ronald G. Evans
Lab Director



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Phone (415) 372-3700 • Fax (415) 372-6955

Post-It™ brand fax transmittal memo 7671		# of pages ▶ 2	
To	Chris Lecce	From	G. Eberle
Co.	Mobile Chem	Co.	Alameda Co.
Dept.		Phone #	
Fax #		Fax #	

1223\012168

Miller Environmental Company
999 Anderson Drive, #120
San Rafael, CA 94901
Attn: Darin Reinholdt
Project Manager

Date Sampled: ~~09-28-92~~
Date Received: 09-28-92
Date Analyzed: 10-08-92

Sample Number

092565

Sample Description

Oakland Auto
BH3-3' SOIL

BH1-3' ← Chris - I wrote
this during
my
review
of Eberle

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Ronald G. Evans
Lab Director

GENERAL INFORMATION

Location - The symposium will be held at the Sheraton Harbor Island Hotel, located in the middle of picturesque San Diego Bay and adjacent to San Diego International Airport. Complimentary airport shuttle service is available. Although the hotel's meeting facilities can accommodate 1,500 people for general and concurrent sessions, exhibits, and posters, registration for the symposium will be limited to 1,200 to avoid overcrowding. The hotel is within 10 minutes of major visitor attractions including Sea World, the world-famous San Diego Zoo, historic Old Town, Balboa Park, Seaport Village, and beautiful ocean beaches. Ample time will be allowed within the program schedule to take advantage of the scenic locale, and optional pre- and post-symposium activities will be available for symposium delegates and their companions.

Fee Schedule —

	Before Jan. 31	After Jan. 31
Industry	US\$595	\$695
* Government/University	US\$450	US\$500

The symposium fee covers admission to all technical presentations and poster sessions; exhibit pass; abstracts of presentations; group lunches, receptions, and daily refreshments; and a copy of symposium proceedings upon publication after the program.

** Note: The government rate is extended to government employees only and does not apply to government contractors.*

Registration - To register for the symposium, complete the attached reply card and return with payment or government purchase order to the symposium coordinator.

Checks should be drawn on a U.S. bank payable in U.S. funds to "Bioreclamation Symposium," FEID #31-1157243. American Express, Diners Club, Discover, MasterCard, and Visa are accepted, also. Cancellations received prior to March 1, 1993 will be refunded, less a \$25 service fee. No refunds will be honored after that date; however, paid no-shows will receive a copy of abstracts and proceedings. Substitutions will be accepted at any time, preferably with advance notice. Presenting authors will be expected to pay the full symposium fee at the appropriate early registration rate.

Accommodations - Housing has been reserved for symposium delegates at the Sheraton Harbor Island Hotel at special group rates. Reservations should be made directly with the hotel and identified with the Bioreclamation Symposium. Rates listed below do not include applicable tax,

currently 9%. Reservations made after the cutoff date will be accepted based on rate and space availability.

Sheraton Harbor Island Hotel
 1380 Harbor Island Drive
 San Diego, California 92101
 Telephone: 619-692-2265 (ask for a Reservations Agent)
 FAX: 619-294-3279
 Rates: \$113/single; \$128/double
 Government rates at per diem, currently \$76 including tax
 Reservations cutoff: March 4, 1993

Travel Discounts - Discount airline rates are available for US domestic and Canadian travel on most major carriers. Rates range from up to 45% off full coach fare or 5% off the lowest applicable fare for US travel; and 35% off full coach fare or 5% off lowest applicable fare for Canadian travel. Arrangements must be booked through American Travel Management's Corporate Department. Call 800 347-3800 (US only) or 919-831-3800 and refer to the Bioreclamation Symposium. Note: Some fares require seven-days advance booking. Since the Easter holiday is the weekend immediately following the symposium, we urge you to make flight arrangements as soon as possible before flights are filled.

Proceedings - Selected papers from the symposium will be peer-reviewed and published following the symposium. The scheduled publication date is September 1993. Participants will receive one copy at no additional charge. Extra copies may be ordered at the time of publication.

Exhibits - Leading organizations in the field of remediation and related groundwater and soil cleanup will display their products and services. Limited space is still available for booth rental. The cost of an 8' x 10' space is \$2,000, which allows two representatives to attend the symposium. For more information on an application, check the appropriate box on the attached registration form.

Symposium Coordinator - For non-technical information regarding symposium arrangements, registration, exhibits, or optional activities, contact the symposium coordinator:

Phillip Wells
 The Conference Group
 1989 West Fifth Avenue, Suite 5
 Columbus, Ohio 43212-1912 USA
 Telephone: 800 783-6338 (US) or 614-454-5461
 FAX: 614-488-5747

Questions regarding the program's technical content may be directed to:

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Europe

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 Bioreclamation Symposium Co-Chair
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MOBILE CHEM LABS INC.

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CHAIN OF CUSTODY

SAMPLER: J Sammons

DATE/TIME OF COLLECTION: 9/28/92-0900
1500

TURNAROUND TIME: NTAT

SAMPLE DESCRIPTION AND PROJECT NUMBER:

Soil
Oakland Auto

SAMPLE #	ANALYSIS	GRAB OR. COMP.	NUMBER OF CONTAINERS	SOIL/WATER
<u>BH-3'</u>	<u>TPHG-BTEX</u>	<u>Grab</u>	<u>1</u>	<u>Soil</u>
<u>BH-5'</u>	<u>TPHG-BTEX</u>	<u>Grab</u>	<u>1</u>	<u>Soil</u>
<u>BH-6'</u>	<u>TPHG-BTEX</u>	<u>Grab</u>	<u>1</u>	<u>Soil</u>
<u>BH-10'</u>	<u>TPHG-BTEX</u>	<u>Grab</u>	<u>1</u>	<u>Soil</u>
<u>① SP1</u>	<u>TPHG-BTEX</u>	<u>Grab</u>	<u>4</u>	<u>Soil</u>
<u>② SP3</u>	<u>TPHG-BTEX/TOG</u>	<u>Grab</u>	<u>2</u>	<u>Soil</u>
<u>③ SP2A</u>	<u>TPHG-BTEX</u>	<u>Grab</u>	<u>4</u>	<u>Soil</u>
<u>④ SP2B</u>	<u>TPHG-BTEX</u>	<u>Grab</u>	<u>4</u>	<u>Soil</u>

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
<u>J. Sammons</u>	<u>1425/9/28/92</u>	<u>Darin J Reinholdt</u>	
<u>Darin J Reinholdt</u>	<u>9/28/92 15:47</u>	<u>C. Picce</u>	<u>9/28/92 3:50pm</u>
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS:

- ① Composite 4 to 1
- ② Composite 2 to 1
- ③ Composite 4 to 1
- ④ Composite 4 to 1