



FAX COVER SHEET

DATE: 10/19/94
ATTN: Juliet Shin
COMPANY: Alameda County Environmental Health
FAX#: _(510) 337-9335
RE: 508 E. Lewelling Blvd.
DOCUMENTS: Revised wark plan
PAGES:
COMMENTS: Juliet, I contacted True Labs and they told me they
had no scale to the drawing of this site. Please give me a call
as to what you want to do. I might be able to visit site or get
plot plan from owner it you really need it.
FROM: Kurt Sofo Gunting
Environmental Investigation and Action, Inc. 22390 Thunderbird Place Hayward, CA 94545 (510) 264-9081 (510) 264-9083 fax

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WORKPLAN SUPPLEMENTAL SURFACE INVESTIGATION

Engine Research Company 508 East Lewelling Blvd. San Lorenzo, CA 94580

At the request of Engine Research Company (ERC), Environmental Investigation and Action, Inc. (EIA) has prepared this workplan for a supplement subsurface investigation at the above-referenced site. Based on a review of previous work conducted at the site, EIA concluded that additional site investigation is needed in the vicinity of soil sample E3 (see Figure C1), and in the vicinity of three former tanks and soil sampled areas, adjacent to the garage building. The purpose of the proposed investigation is to evaluate the extent of hydrocarbon-impacted soil at the site, if any, as well as, to evaluate groundwater conditions beneath the site, and to respond to a Alameda County Environmental Health Hazardous Material (ACEHD) letter dated May 19, 1994. (see Attachment 1).

PROPOSED SCOPE OF WORK

The proposed work will be conducted in accordance with the Alameda County Environmental Health Hazardous Material (ACEHD) Guidelines for Report Submittels, dated May 19, 1994. The proposed work will not begin until this workplan has been approved by the ACEHD. The proposed scope of work includes the following:

Site Safety Plan

Prior to initiating field work, EIA will provide a site specific safety plan. The plan will describe the safety requirements for the proposed work. The safety plan will apply to EIA personnel and our subcontractors.

Site Reconnaissance

On 4/14/94 soil samples were taken from the excavated tank pit (see figure C1). At the time of the sampling the highest concentration of TPHg/BTEX were from the sample collected at E3. (For analytical results see figure pgs.B1,2,3.) Underground Service Alert (USA) requires boring locations to be marked on the pavement before utility company personnel arrive at the site to locate underground utilities and service lines. EIA will conduct a site reconnaissance to mark boring location before work begins. After marking boring locations, EIA will contact USA at least 72 hours prior to commencing field activities.

Regulatory Permits

Prior to initiating field work, EIA will submit a permit application to the Alameda County Flood Control Division Zone 7 to drill one soil boring at the site. Field work will not begin until the permit has been issued.

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Soil Borings

EIA proposes drilling one soil boring in the vicinity of Soil sample E3 (Figure C1) to evaluate the vertical extent of hydrocarbon-impacted soil (B-1) north of E3. The anticipated vertical depth of borings B-1 is anticipated to be 22 feet below grade. The proposed soil boring locations is shown on Figure C1.

EIA proposes drilling one vertical soil boring to extent of hydrocarbon-impacted soil, if any, in the vicinity of the three former tanks adjacent to the sidewalk/street. The Boring will be drilled with the CME-75 or equivalent truck mounted drill rig equipped with hollow-stem augers. Augers will be steam cleaned before drilling and between drilling the boring to minimize the possibility of cross-contamination. Drill cuttings and rinsate water from the borings will be placed 55-gallon 17H steel drums approved by the Department of Transportation (DOT). The drums will be labeled according to content and will be stored on site pending disposal of the cuttings and rinse water. Disposal documentation for the soil and water will be included in an Appendix to a report summarizing the work.

The sample will be described at the time of collection by EIA geologist, using the Unified Soil Classification System. Soil description for the boring will be presented on the boring logs, which will be included in an Appendix to the report.

Soil sampling methods will be collected by advancing the boring to a point just above the sampling depth and then driving a California-modified, split-spoon sampler into the soil through the hollow center of the auger. The sampler, containing brass sample tubes, will be driven 18 inches into the ground with a standard 140 pound hammer repeatedly dropped 30 inches. The number of blows to drive the sampler each 6-inch increment will be counted and recorded on the Boring Logs to evaluate the relative consistency of the soil.

The soil samples will be removed from the sampler and sealed in their brass sample tubes with Tellon sheeting and plastic caps. The samples then will be labeled and placed in a pre-cooled container. A chain-of-custody protocol will be followed throughout the field and laboratory official laboratory results will be included an Appendix to the Report.

Backfilling Boring

The Boring will be backfilled in accordance to State and Local regulations. A cement bentonite grout will be used to backfill the borehole from the total depth to grade.

Groundwater Sampling

EIA will check the new boring for floating product and measure water levels and product thickness, if present. If need be, EIA will purge water until pH, conductivity, temperature, and turbidity stabilizes. Purge water will be stored onsite in DOT approved 55-gallon 17H drums, pending disposal. Groundwater samples will be collected with a disposable bailer. The bailer will be lowered approximately 2 feet into groundwater to retrieve a sample. The water samples will be stored in childed, 40 milliliter glass vials. Each sample will be promptly sealed with Teflon-lined cap, checked for absence of headspace, tabeled, and placed in a pre-cooled container. The bailer will be washed with an Alconox solution and rinsed with distilled before disposal.

A chain-of-custody Record will be initiated in the field and will accompany the water samples to a California-certified Laboratory. This chain-of-custody protocol will be followed throughout the field and Laboratory procedures.

ANALYTICAL METHODS

The soil sample will be analyzed in accordance with ACEHD guidelines. Soil sample will be analyzed as follows:

Boring B-1: 5 foot intervals (sample taken at 13-14 feat below grade in adjacent area where highest detectable hydrocarbons concentrations near E3). Assumed soil-water interface at 22 feet (GW), with one groundwater sample taken at approx. 22-24 feet.

Soil sample will be analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA method 8015 and for Benzene, Toluene, Ethlybenzene, and total Xylene isomers (BTEX) by Method 8020.

Groundwater samples will be analyzed for TPHd by modified EPA Method 8015 and for BTEX by EPA Method 602. In addition, EIA will prepare and analyze one travel and one equipment blank water samples for BTEX by EPA Method 602.

REPORT PREPARATION

A report summarizing the field and laboratory procedures, and laboratory results will be supplied to Engine Research Company (ERC), upon completion of proposed work. Upon receiving ERC approval, EIA will forward copies of the report to the lead regulatory agency, the ACEHD.

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	Erca	vation 1	Tanks	No.	Analyses:	1///	77
_ 50 _ 34	y Name and X J Au- E. Luck Manager:	They go	74580	of			
Sample 10		MAX	GACIO te Location	Con- tainers			REMARKS
E1	4/14/94 9	25 4 7 1/					
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= 3	4 14 54 12	AN NOWA	west corner	Bras stube	XX	12 41	(Bothow)
=4		מרו פעין נייג	I beant Melegraph	- 1-trace lube	XX	1241	Botton
5	W/4 60	6 Au Mest	ide-Mid	-Bass Tebe		9 4 1/1	
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21	011177110	27.40 South	Mid to Gosf	1-Brass Tule X	/ /	10 ft / (Bo	
2	4494 97	7M 56.	k pile	1-Brass X		2 11	HOM (WA)
	4/4/94 1010	54 Sto	ck file.	1-2-44 X	X	394	Surther
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Juliet Shin, Alameda County Health Dept., Ph# (570)271-4530
For # (570)589-475-7.

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1994, 10-19

13145 #803 P.02/05

Trace Analysis Laboratory, Inc. 3423 Investment Boulevard, #8 - Hayward, California 34545

Telephone (610) 783-6980 Facsimile (510) 783-1512

LOG NUMBER:

4305

DATE SAMPLED: DATE RECEIVED:

04/14/94

DATE EXTRACTED: DATE ANALYZED:

DATE REPORTED:

04/14/94 04/21/94 04/23/94 and 04/29/94

05/18/94

CUSTOMER:

Max's Auto Repair

REQUESTER:

Max Gracio

PROJECT:

Excavation/Tanks

			Sample	Type:	Sofi		
Method and <u>Constituent</u> :	<u>Units</u>	Concen-	Report ing		F2 Report in	Concen-	<u>F3</u>
DHS Method:		***************************************	Limit	tration	Limit	<u>tration</u>	Reporting Limit
Total Petroleum Hydro- carbons as Gasoline Modified EPA Method 802	ug/kg O for:	1,800	500	13,000	500 (94,000	7,500
Banzene Toluene Ethylbanzene Xylenes	ug/kg ug/kg ug/kg ug/kg	ND 7.6 23 74	5.0 5.0 5.0 15	ND ND 96 200	5.0 5.0 5.0	ND 1,200 590	140 140 140
Method and Constituent: DHS Method:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	E6 Reporting Limit	SF Concentration	420 Reporting
Total Petroleum Hydro- carbons as Gasoline Modified EPA Method 8020	ug/kg for:	950	500	ND	500	ON	500
Benzene Toluene Ethylbenzene Xylenes	ug/kg ug/kg ug/kg ug/kg	ND ND 9.4 53	5.0 5.0 5.0 15	ND ND ND	5.0 5.0 5.0	ND ND ND 33	5.0 5.0 5.0
Concentrations was a							-

Concentrations reported as ND were not detected at or above the reporting limit.

510 337 9336

1994, 10-19

13:4日

#803 P.03/05

Trace Analysis Laboratory, Inc. B2

LOG NUMBER: 4305 DATE SAMPLED: DATE RECEIVED: DATE EXTRACTED: 04/14/94 04/14/94 04/21/94 04/23/94 DATE ANALYZED:

DATE REPORTED:

PAGE:

05/18/94

Two

Sample Type: Spil						
Units	Concen-	Reporting	Concen-	Reporting	Method Blank	
	- TANK	<u></u>	tration	imit	<u>tration</u>	Reporting Limit
ug/kg) for:	5,600	500	730	500 .	NO	500
ug/kg ug/kg ug/kg ug/kg	ND ND 25 24	5.0 5.0 5.0 15	ND ND ND 47	5.0 5.0 5.0	ND ND ND	5.0 5.0 5.0
	for: ug/kg ug/kg ug/kg	Units Concentration Ug/kg 5,600 for: ug/kg ND ug/kg ND ug/kg 25	Units tration Reporting tration Limit ug/kg 5,600 500 for: ug/kg ND 5.0 ug/kg ND 5.0 ug/kg 25 5.0	Units tration Reporting Concen- Units tration Limit tration ug/kg 5,600 500 730 for: ug/kg ND 5.0 ND ug/kg ND 5.0 ND ug/kg ND 5.0 ND ug/kg 25 5.0 ND	Units tration Reporting Concentration Limit Ug/kg 5,600 500 730 500 for: ug/kg ND 5.0 ND 5.0 ug/kg ND 5.0 ND 5.0 ug/kg ND 5.0 ND 5.0 ug/kg ND 5.0 ND 5.0	SP2 SP3 Hetho Limit Concentration Concentration Limit Concentration Limit Concentration Limit Concentration Limit Concentration Concentration Concentration Limit Concentration Concentration

OC Summary:

% Recovery: 74 and 79

% RPD: 19 and 40

Concentrations reported as ND were not detected at or above the reporting limit.

510 337 9335

1994, 10-19 13:46 #803 P.04/05

Trace Analysis Laboratory, Inc.

LOG NUMBER: 4305 DATE SAMPLED: 04/14/94 DATE RECEIVED: 04/14/94 DATE EXTRACTED: 04/26/94 04/27/94 DATE ANALYZED: DATE REPORTED: 05/18/94 PAGE: Three

			Sample Type:	Soil	•	
Method and Constituent:	<u>Units</u>	Concen- Repo	rting Cons	EZ	G 6	F3
EPA Method 7420:		tration [1	mit trat	lon Limit	g Concen- tration	Reporting Limit
Lead	ug/kg	12,000 3,6	500 10,000	3,600	15,000	···
Method and Constituent:	<u>Units</u>	Concen- Repor tration im		E6 Reporting		3,600 1 <u>P1</u>
EPA Method 7420:	7	- TI	lit trati	on limit	tration	Reporting Limit
Lead	ug/kg	6,600 3,6	00 4,100	3,600	6,600	
Method and Constituent:		SP2 Concen- Report		SP3		3,500
	<u>Units</u>	Concen Report	ting Concer It tratio	Ab.as a titial	concen-	Blank Reporting
EPA Method 7420: Lead		_		in <u>limit</u>	<u>tration</u>	Limit
FABR	ug/kg	12,000 3,60	0 22,000	3.806	M. Free	

DC Summary:

% Recovery: % RPD: 136 14

Concentrations reported as ND were not detected at or above the reporting limit.

Duputs

Quality Assurance/Quality Control Manager

3,600

ND

3,500

510 337 933E

1994,10-19

13:46 #803 P.05/05

TAL

Trace Analysis Laboratory, Inc.

Fig. C1

Site: Max's Auto Repair

Address: SOB East Lewelling Boulevard

Sen Lorenzo. CA 94580

North //\ |

proposed drilling location Approx. 4.5 At from fence B-1 * Alisal Court E2 508 East E4 E5 Lewell ing lample Boulevard Excavation SP1 Shop

Requester <u>: Max Gracio</u>	
Customer: Max's Auto Repair	
508 East Lewelling Bouleva	 rd
San Lorenzo, CA 94580	

Date Sampled: 04/14/94 Log No.: 4305