

TOTAL PAGES 7 PROPOSAL/PROJECT NO. _____ DATE _____
 FROM Bruce Rucker OFFICE NO. _____ EXT. _____
 ATTENTION Juliette Shin CITY/STATE _____
 COMPANY NAME Alameda County Haz Mat TELECOPY NO. () 569 4757

MESSAGE

- Please make copies and distribute within your office.
- Please respond no later than _____.

Juliette,
 Attached is 5/3/93 initial soil sample lab report. I checked
 our field logbook, and on 6/16/93 you and Henry Pietropoli of
 ES reviewed these analytical results in the field. It was then
 decided that subsequent soil samples need not be analyzed
 for TPH-d.

Please call if you have questions or require further
 information. Thank you.

Bruce Rucker

ENGINEERING-SCIENCE, INC., 1301 MARINA VILLAGE PARKWAY - SUITE 200, ALAMEDA, CA 94501

VOICE: 415/769-0100

TELECOPIER: 415/769-9244



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

DATE RECEIVED: 05/03/93
DATE REPORTED: 05/10/93

LABORATORY NUMBER: 110780

CLIENT: ENGINEERING SCIENCE

PROJECT ID: NC389.02

LOCATION: EBRPB, REDWOOD YARD

RESULTS: SEE ATTACHED

Janne Bluff
Reviewed by
Kathy B.
Reviewed by

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Berkeley

Los Angeles



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110780
 CLIENT: ENGINEERING SCIENCE
 PROJECT ID: NC389.02
 LOCATION: EBRPD, REDWOOD YARD

DATE SAMPLED: 05/03/93
 DATE RECEIVED: 05/03/93
 DATE ANALYZED: 05/07/93
 DATE REPORTED: 05/10/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
 TVH by California DOHS Method/LUFT Manual October 1989
 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
110780-3	GT-1	800	6,300	43,000	18,000	94,000
110780-4	GT-2	2,200	25,000	120,000	45,000	250,000

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY

RPD, %	
RECOVERY, %	<1
	96



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110780
 CLIENT: ENGINEERING SCIENCE
 PROJECT ID: NC389.02
 LOCATION: REDWOOD CITY

DATE SAMPLED: 05/03/93
 DATE RECEIVED: 05/03/93
 DATE ANALYZED: 05/09/93
 DATE REPORTED: 05/10/93

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
 Extraction by EPA 5030 Purge and Trap

LAB ID	SAMPLE ID	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)	REPORTING LIMIT (ug/Kg)
110780-1	DT-1	ND	ND	ND	ND	5
110780-2	DT-2	ND	ND	ND	ND	5

ND = Not detected at or above reporting limit.

Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	<1
RECOVERY, %	101



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110780
CLIENT: ENGINEERING SCIENCE
PROJECT ID: NC389.02
LOCATION: EBRPD, REDWOOD YARD

DATE SAMPLED: 05/03/93
DATE RECEIVED: 05/03/93
DATE ANALYZED: 05/04/93
DATE REPORTED: 05/10/93

ANALYSIS: LEAD
ANALYSIS METHOD: EPA 7420

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
110780-3	GT-1	10	mg/Kg	3
110780-4	GT-2	9	mg/Kg	3

QA/QC SUMMARY:

RPD, %	2
RECOVERY, %	92



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110780
 CLIENT: ENGINEERING SCIENCE
 PROJECT ID: NC389.02
 LOCATION: EBRPD, REDWOOD CITY

DATE SAMPLED: 05/03/93
 DATE RECEIVED: 05/03/93
 DATE EXTRACTED: 05/04/93
 DATE ANALYZED: 05/07/93
 DATE REPORTED: 05/10/93

Extractable Petroleum Hydrocarbons in Soils & Wastes
 California DOHS Method
 LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
110780-1	DT-1	**	4	1
110780-2	DT-2	ND	3	1

** Kerosene range not reported due to overlap of hydrocarbon ranges.

+ Pattern does not match standard. Heavier hydrocarbons may be affecting the quantation of diesel-range components.

ND = Not Detected at or above reporting limit.

* Reporting limit applies to all analytes.

QA/QC SUMMARY: Laboratory Control Sample

RECOVERY, %

94

**ENGINEERING - SCIENCE, INC.
CHAIN OF CUSTODY RECORD**

LAB:

PAGE 1 OF 1

CLIENT: ENGINEERING-SCIENCE, INC. BERKELEY		PROJECT MANAGER: <i>Rucker</i>		PROJ. NO.: <i>NC38902</i>		NO. OF CONTAINERS	ANALYSES REQUIRED							PRESERVED TO BE COMPOSITED BY LAB TURNAROUND TIME	REMARKS
PROJECT NAME / LOCATION: <i>East Bay Regional Park, Redwood yard</i>							TPH-diesel	TPH-gms + BTEX	BTEX	Total Lead					
SAMPLER(S): (SIGNATURE) <i>Henry Petrognach</i>															
SAMPLE ID	DATE	TIME	MATRIX	SAMPLE LOCATION											
DT-1	5/3/93	1140	Soil	9'10" below ground surface		1	✓		✓				5 day	110780-1	
DT-2	5/3/93	1145	Soil	10'2" " " "		1	✓		✓				"	-2	
GT-1	5/3/93	1200	Soil	12 feet " " "		1		✓	✓				"	-3	
GT-2	5/3/93	1210	Soil	12 feet " " "		1		✓	✓				"	-4	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)					
RELINQUISHED BY: (SIGNATURE) <i>Henry Petrognach</i>		DATE/TIME 5/3/93 1422		RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>John A. Heath</i>		DATE/TIME 5/3/93 1422		REMARKS							

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07-20-93 09:16 AM FROM ENG-SCI-ALAMEDA

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