SITE REMEDIATION OBSERVATION

TACO BELL

1900 WEBSTER STREET

ALAMEDA, ALAMEDA COUNTY, CALIFORNIA

BY

LRA ENVIRONMENTAL
3235 SUNRISE BLVD., SUITE 5
RANCHO CORDOVA, CALIFORNIA 95742
(916) 631-4455

October 15, 1992
JOB NUMBER E9170

LRA ENVIRONMENTAL
3235 SUNRISE BOULEVARD, SUITE 5
RANCHO CORDOVA, CA 95742
PHONE 916/631-4455
FAX 916/631-4466

October 15, 1992
Job Number E9170

TACO BELL

1900 WEBSTER STREET

ALAMEDA, ALAMEDA COUNTY, CALIFORNIA

INTRODUCTION

This report describes the partial remediation of contamination by soil excavation conducted June 1, 2 and 3, 1992; and the subsequent soil aeration which occurred June 5 through July 2, 1992 at the parking lot located at TACO BELL, 1900 Webster Street, Alameda, Alameda County, California; see Plates Number 1 and 2 for vicinity and location maps. This report is being submitted by LRA Environmental to Alameda County Environmental Health Department and the Regional Water Quality Control Board (RWQCB), on behalf of Dolan Foster Enterprises, the property owner.

The work performed was completed as part of the overall site remediation strategy for the Taco Bell site, as outlined according to "Soils Investigation Workplan", Job Number E9171, dated February 26, 1992. Soil samples were collected and analyzed during the course of this portion of the site remediation and the results of these analyses are discussed herein.

SOIL EXCAVATION AND FIELD OBSERVATION

All native soils registering PID measurements above 5 ppm or emitting chemical odors were removed from the excavation. These soils were removed from the area where the tank dispensers were located. Additionally, soils from the bottom and the sidewalls of the excavation, registering elevated PID readings, were removed to depths varying from 4 to 6 feet below grade, as observed by Eva Chu of the Alameda County Environmental Health Department (ACEHD). Excavation boundaries and depth contours are shown on Plate Number 3.

Approximately 300 cubic yards of native soils were removed from the excavation. All trucking, excavation and backfilling was performed by V.C.I. Construction Corporation, registered DOT, DMV, EPA, etc. Asphalt concrete was removed using mechanical equipment, placed in a "dump truck" and transported from the site. Soils were excavated and transported to a dedicated area in the parking lot that had been properly prepared to receive the soil for stockpiling. The designated area was prepared by covering the area with overlapping plastic sheeting, as depicted on Plate Number 2. The stockpile was located on the north half of the parking lot. The stockpile was covered with plastic sheeting until aeration was initiated. Aeration of these soils is discussed in subsequent sections of this report.

FIELD OBSERVATION

During the soil removal work on June 1, 2 and 3, 1992, native soils encountered at depths to 6 feet below grade emitted strong chemical odors and registered 50 to 200 on a relative scale as organic vapor on a PID; photo-ionization detector, Model PI-101. The highest chemical concentrations in the soils appeared to be in the upper 3 to 6 feet of strata. These soils were removed. The excavated soils were stockpiled on the designated area. The PID measurements of soil suggest that the chemical concentrations in the soils were greatly reduced at the depth of 7 feet below grade. Specifically, reductions in contaminant levels were observed at the seven foot (7') depth and away from the previously located fuel storage tank and gasoline dispenser and connection pipes.

EXCAVATION BACKFILLING

The excavated area was backfilled and compacted with pit run to a depth of 2 feet below surface. Aggregate base was then used to backfill the remainder of the excavation. All backfill was compacted to 90% of the maximum dry density of the material being used. The area was left unpaved as construction of a new restaurant will soon begin and the original Taco Bell Restaurant will be demolished.

CHEMICAL ANALYSIS AND RESULTS

sidewalls

Soil and water samples were collected from the excavation bottom and sidewalks under the direction of Eva Chu, Alameda County Environmental Health & Hazardous Waste Specialist. All samples were analyzed for benzene, toluene, ethylbenzene and xylene using EPA Method 8020, and total fuel hydrocarbon as gasoline by EPA Method 5030.

Our Job Number E9170
October 15, 1992

Analysis results for the soil and water samples collected from the excavation bottom and sidewalls are outlined below.

CHEMICAL ANALYSIS AND RESULTS
FOR JUNE 3, 1992

SOIL

Sample No.	Depth/ Location	Benzene	Toluene	Ethyl Benzene	Xylene	TFH-G[1]
1[2]	Soil	ND	ND	ND	ND	ND
2	"	ND	ND	ND	ND	ND
3	"	ND	ND	ND	ND	ND
4	"	ND	ND	ND	ND	ND
5	"	ND	ND	ND	ND	ND
6	"	ND	ND	ND	ND	ND
7	"	ND	ND	ND	ND	ND
8	"	ND	ND	ND	ND	ND

WATER[3]

1	Water	29	130	ND	2800	29
2	"	16	400	200	2300	21

STOCKPILED SOIL

Date	Location	Benzene	Toluene	Ethyl Benzene	Xylene
06-15-92	Stockpile SW	ND	1.3	0.9	45
	Stockpile Center	0.9	5.6	5.8	40
	Stockpile NE	ND	1.1	0.5	5.5
	Stockpile NW	Flashpoint		> 140°F	
		Sulfide		ND	
		pH		8.6	

---

[1]Total Fuel Hydrocarbons - Gasoline by EPA Method 5030.

[2]All samples taken on June 3, 1992.

[3]All units measured in parts per billion (ppb).

SOIL AERATION

The approximately 300 cubic yards of petroleum tainted native soils from beneath and adjacent to the gasoline dispenser islands were aerated on site under permit from Bay Area Air Quality Management Department (BAAQMD). The area used for aeration was lined with 10-mil overlapping plastic sheeting and enclosed by an existing fence. Soils were spread in an approximately 2 foot to 3 foot thick layer over the area. Soils were initially turned and spread using backhoe and loader equipment. Once the soils were spread evenly over the area, discing equipment was used to mix, turn, and break up soil clods. Discing of the soils was performed twice weekly for a period of three (3) weeks by V.C.I. Construction until the soils were relatively dry and consistent in character (mixing of the clay and sand soils resulted in a loose, clayey sand).

After mixing and turning the soil for two weeks, soils were sampled on June 15, 1992 according to BAAQMD guidelines and tested for organic lead, benzene, toluene, ethyl benzene, xylene and TFH using Method EPA 5030. Five (5) soil samples were collected. Laboratory certificates are included in Appendix B. Samples are identified as SW #1, Center #2, NE #3, and NW #4 on the data sheets.

After two weeks of soil mixing in the stockpile, results of the chemical analyses of soil samples from the stockpile are as follows:

STOCKPILE SOIL SAMPLES CHEMICAL ANALYSIS

Date	Sample #	Benzene	Toluene	Ethyl Benzene	Xylene
06-15-92	S.W. #1	ND	1.3	0.9	45
	Center #2	0.9	5.6	5.8	40
	N.E. #3	ND	1.1	0.5	5.5
06-15-92	N.W. #4	Sulfide		ND	
		Flashpoint		> 140°F	
		Cyanide		ND	
		pH		8.6	

These results indicate that the soils were sufficiently aerated in that levels of volatile organic compounds were reduced to near or below detection limits. As a result, further characterization was not deemed necessary by B.F.I. Water Systems, the receiver of the remediated soil.

SUMMARY AND CONCLUSIONS

As reported above, LRA Environmental personnel in conjunction with representatives of ACEHD, observed the excavation and removal of petroleum tainted soils and the soil aeration process. Based on field observations and laboratory data obtained during the work, the following conclusions can be made.

- Observations of the soils surrounding the gasoline dispenser island and underlying native soils indicated that chemicals had been released into the subsurface beneath the original gasoline dispenser area. Approximately 300 cubic yards of these petroleum tainted soils were removed.

- Soil sampling and chemical analysis for volatile organic compounds was performed on samples collected under the supervision of Eva Chu from the sidewalls and water from the bottom of the tank excavation, as well as from the aerated stockpile. All chemical analysis indicated that the greatest portion of the contaminated soil had been removed and sufficiently remediated for disposal at BFI Waste Management Systems on Vasco Road in Livermore.

- Due to the age and prolonged use of the tank/pump island pipes and connectors, it is likely that they may have leaked and contributed to the subsurface contamination conditions.

- The excavation was backfilled and compacted so as to accommodate the construction of a new Taco Bell Restaurant. All fill was compacted to 90 percent (or above) of the maximum dry density of the material being used to backfill the excavation.

- Aeration of the removed, chemical-affected soils was performed on site under permit of the Bay Area Air Quality Management Department (BAAQMD). Aeration has been completed, and chemical analyses of the soils indicate that chemicals are no longer present in the excavated soil at concentrations above action limits.

REMEDIATION PROGRESS REPORT - AUGUST 5, 1992

On July 6, 1992, Dolan Foster Enterprises demolished the Taco Bell Restaurant located at 1900 Webster Street. During the destruction of the building, a waste oil storage vessel was discovered. It was located approximately 60 feet east of Webster Street and 60 feet north of Eagle Avenue underneath the main entrance to the now demolished restaurant. The vessel was removed and the barrel, its contents and the surrounding soils were disposed of at B.F.I. Waste Systems on Vasco Road in Livermore, California.

Demolition of the building gave access to an area that had been pre-determined as being the abandoned underground storage tank field. On July 13, 1992, LRA Environmental drilled two (2) borings to 10 feet. Soil samples were taken at intervals of five feet (5') and ten feet (10') below ground surface in both borings. An additional boring was also placed at the site of the waste oil barrel and sampled from five feet (5') to six feet (6') below ground surface, i.e, two feet feet (2') to three feet (3') beneath the bottom of the waste oil container (see Plate 3). A second sample was also taken from nine feet (9') to ten feet (10') below ground surface at this location.

All samples were retained in stainless steel six inch (6") by two inch (2") tubes. The tubes were sealed, taped and transported to a State of California certified laboratory where they were tested for benzene, toluene, ethyl-benzene, xylene, total fuel hydrocarbons as gasoline, and total petroleum hydrocarbons as diesel and kerosene. Additionally, the samples from beneath the waste oil barrel were tested for purgeable organics, oil and grease and semi-volatile organics. Results of the chemical analysis are presented in Exhibit #3. Hard copies of the chemical analysis are presented in the Appendix poriton of this report.

Detectable quantities of contamination were found in the soil on the east side of the abandoned tank field. Of main concern is the amount of benzene detected in that sample. However, contamination amounts does not warrant over excavation of the soil and can be remediated by other methods such as vapor extraction, bioremediation, or extraction and treatment. Contamination was also

found in the soil beneath the waste oil vessel at ten feet (10') below ground surface, but poses no major threat or hazard to human health due to the low concentrations.

Plans have been made to place four (4) groundwater monitoring wells on site as per the Underground Fuel Tank Monitoring Workplan complied by LRA Environmental on February 26, 1992. In so far as possible, these wells will be placed according to Regional Water Quality Board guidelines (i.e., one well up-gradient, two wells down gradient and one well within 10 feet of the original contamination source in the verified downgradient direction).

Construction of the new Taco Bell Restaurant has begun and placement of the wells will be completed in conjunction with and prior to the completion of the new restaurant.

On behalf of Dolan Foster Enterprises, we at LRA Environmental would like to thank A.C.E.M.D. for their help and oversite in the remediation of this project. We will continue to take a pro-active position in the remediation process and will be glad to answer any questions that you might have.

This report has been prepared and reviewed by the staff of LRA Environmental and has been reviewed and approved by the "professionals" whose signatures appear on this page.

Prepared by:

Michael Miles
Staff Engineering Geologist

Robert A. Nicholson, R.E.A. #01326
V.P. LRA Environmental

Ahmad Badie PhD.
RCE #C037861

MM:laj
epa\e9170.4

EXHIBIT 3

SUMMARY OF ANALYTICAL RESULTS

SAMPLE #	MATRIX	BTEXB[4]	BTEXT[5]	BTEXE[6]	BETXX[7]	TPHG[8]	TPHD[9]	TPHK[10]	O & G[11]	P.O.[12]	SVO[13]
W Tank 5'	Soil	ND	ND	ND	ND	ND	4	ND	NT	NT	NT
E Tank 8-10'	Soil	0.21	ND	ND	0.49	33	12	22	NT	NT	NT
Waste Oil 3'	Soil	ND	ND	ND	ND	ND	8	ND	ND	ND	ND
Waste Oil 10'	Soil	ND	9.8 ppb	ND	22 ppb	ND	4	ND	ND	ND	ND

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[4]Benzene

[5]Tolulene

[6]Ethylbenzene

[7]Xylene

[8]Total Petroleum Hydrocarbons; Gasoline by EPA 5030 Purge and Trap

[9]Total Petroleum Hydrocarbons; Diesel EPA Method 8015

[10]Total Petroleum Hydrocarbons; Kerosene EPA Method 8015

[11] Oil and Grease by IR Spectrophotometer

[12]Purgeable Organics Modified Method 8240LL

[13]Semivolatile Organics Modified Method 8270

EXHIBIT 3

SUMMARY OF ANALYTICAL RESULTS

SAMPLE #	MATRIX	BTEXB[1]	BTEXT[2]	BTEXE[3]	BETXX[4]	TPHG[5]	TPHD[6]	TPHK[7]	O & G[8]	P.O.[9]	SVO[10]
W Tank 5'	Soil	ND	ND	ND	ND	ND	4	ND	NT	NT	NT
E Tank 8-10'	Soil	0.21	ND	ND	0.49	33	12	22	NT	NT	NT
Waste Oil 3'	Soil	ND	ND	ND	ND	ND	8	ND	ND	ND	ND
Waste Oil 10'	Soil	ND	9.8 ppb	ND	22 ppb	ND	4	ND	ND	ND	ND

[1]Benzene

[2]Tolulene

[3]Ethylbenzene

[4]Xylene

[5]Total Petroleum Hydrocarbons; Gasoline by EPA 5030 Purge and Trap

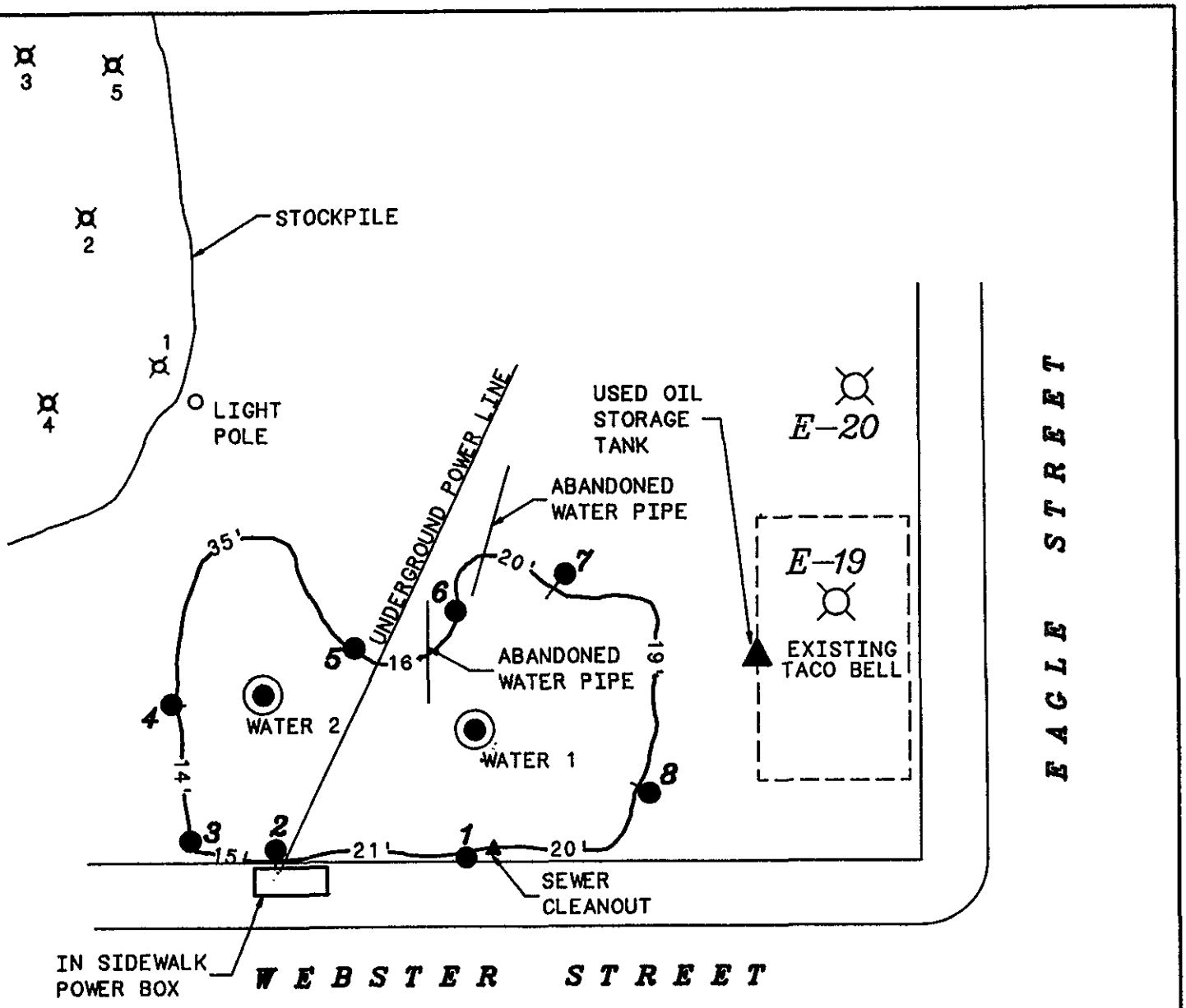
[6]Total Petroleum Hydrocarbons; Diesel EPA Method 8015

[7]Total Petroleum Hydrocarbons; Kerosene EPA Method 8015

[8] Oil and Grease by IR Spectrophotometer

[9]Purgeable Organics Modified Method 8240LL

[10]Semivolatile Organics Modified Method 8270



● SOIL SAMPLING SITES IN EXCAVATION SIDEWALLS JUNE 3, 1992

⌑ STOCKPILE SAMPLING SITES JUNE 15, 1992

⌑ SOIL SAMPLED IN POSSIBLE TANK FIELD 7–13–92

▲ USED OIL STORAGE TANK. SOIL SAMPLED 7–13–92

SAMPLED AT 10:00 A.M. UNDER DIRECTION OF ACEH DEPT. EVA CHU. TOOK 8 SAMPLES OF SOIL AND 2 OF WATER.

NOT TO SCALE

TACO BELL ALAMEDA

1900 WEBSTER STREET
ALAMEDA, CALIFORNIA

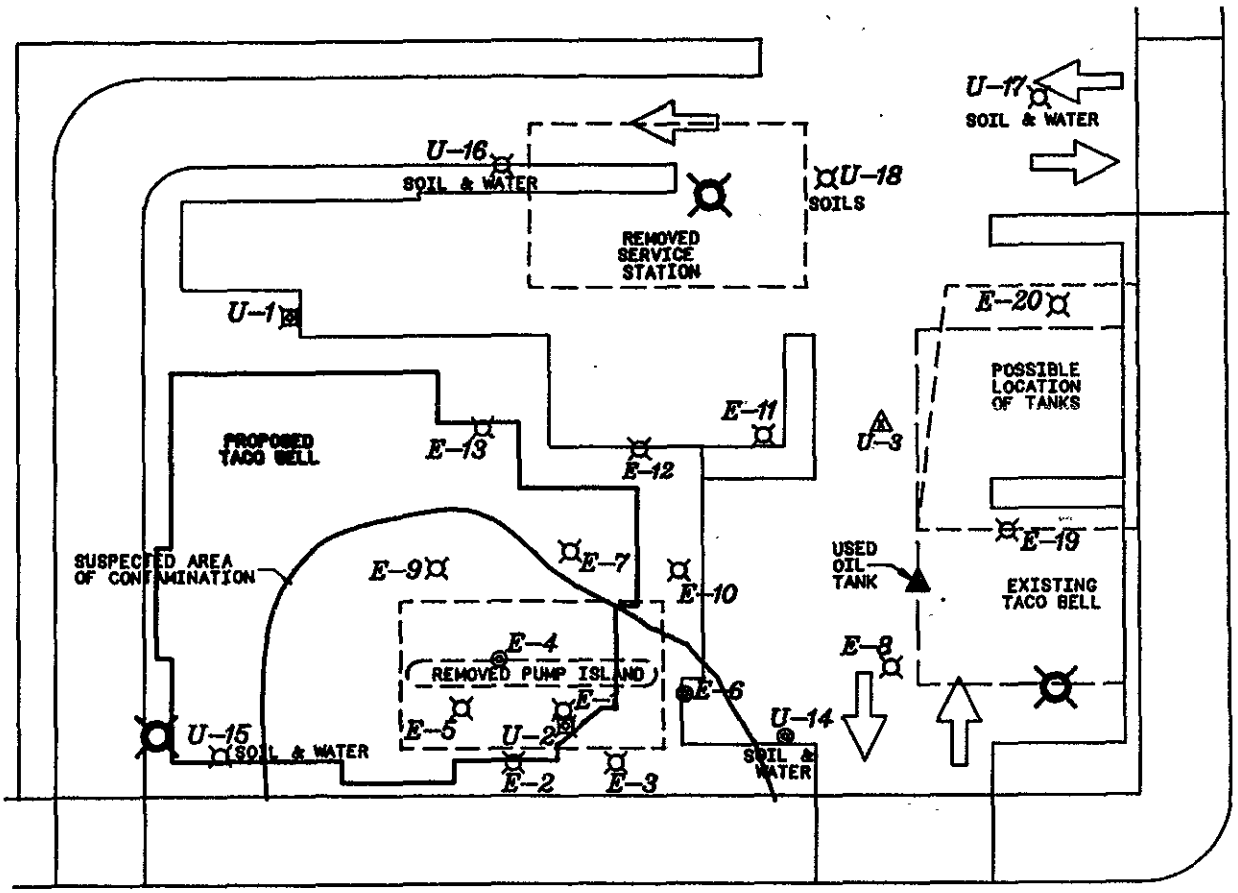
LOCATION MAP

LRA ENVIRONMENTAL
3235 SUNRISE BLVD, STE 5
RANCHO CORDOVA CA 95742

DATE 8-JUL-92

DRWG. NO. E9170C-2

PLATE NUMBER 3



NOTE

LOCATION OF FORMER BUILDING AND TANK SITES TAKEN FROM SITE MAPS DRAWN IN THE YEARS 1951 AND 1966 PER THE EXXON COMPANY, U.S.A. IN CONCORD, CA.

LEGEND

- EXPLORATORY BORINGS-DESIGNATED "E"
- GEOTECHNICAL 1 DRIVE BORINGS-DESIGNATED "U"
- GEOTECHNICAL 3 DRIVE BORINGS-DESIGNATED "U"
- EXPLORATORY BORINGS-CONTAMINATED-DES. "E"
- ---FORMER TANK LOCATIONS
- — —LOCATION OF FORMER STRUCTURES
- PROPOSED PERMANENT MONITORING WELL LOCATIONS

N

NOT TO SCALE

TACO BELL ALAMEDA

1900 WEBSTER STREET
ALAMEDA, CALIFORNIA

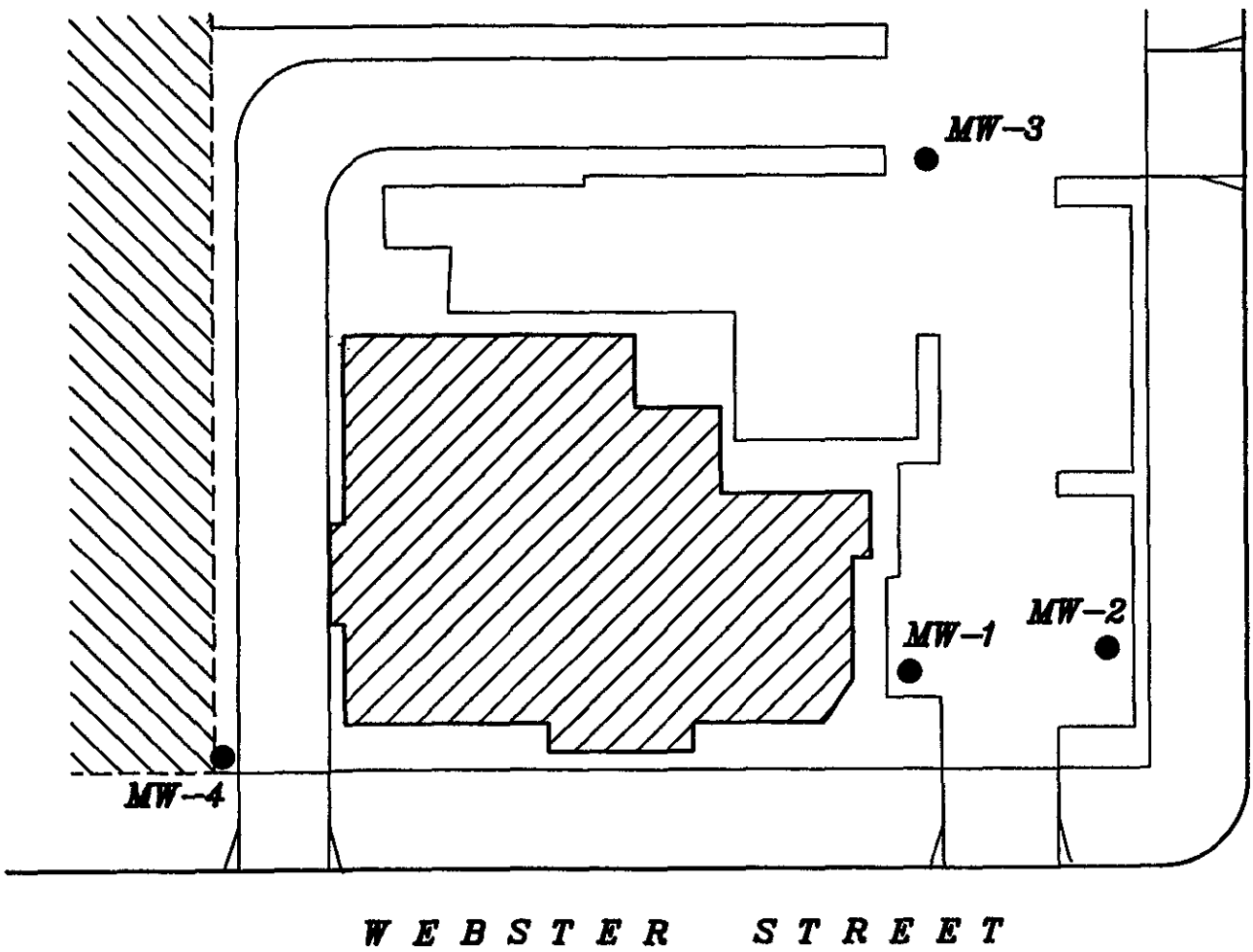
LOCATION MAP

LRA ENVIRONMENTAL
3235 SUNRISE BLVD, STE 5
RANCHO CORDOVA CA 95742

DATE 6 MAR 92

DRWG. NO. E9170E-1

PLATE NUMBER 2A



NOT TO SCALE

● MONITORING WELL PLACEMENTS

EXISTING STRUCTURE

PROPOSED STRUCTURE

TACO BELL ALAMEDA

WEBSTER ST & EAGLE ST
ALAMEDA, CALIFORNIA

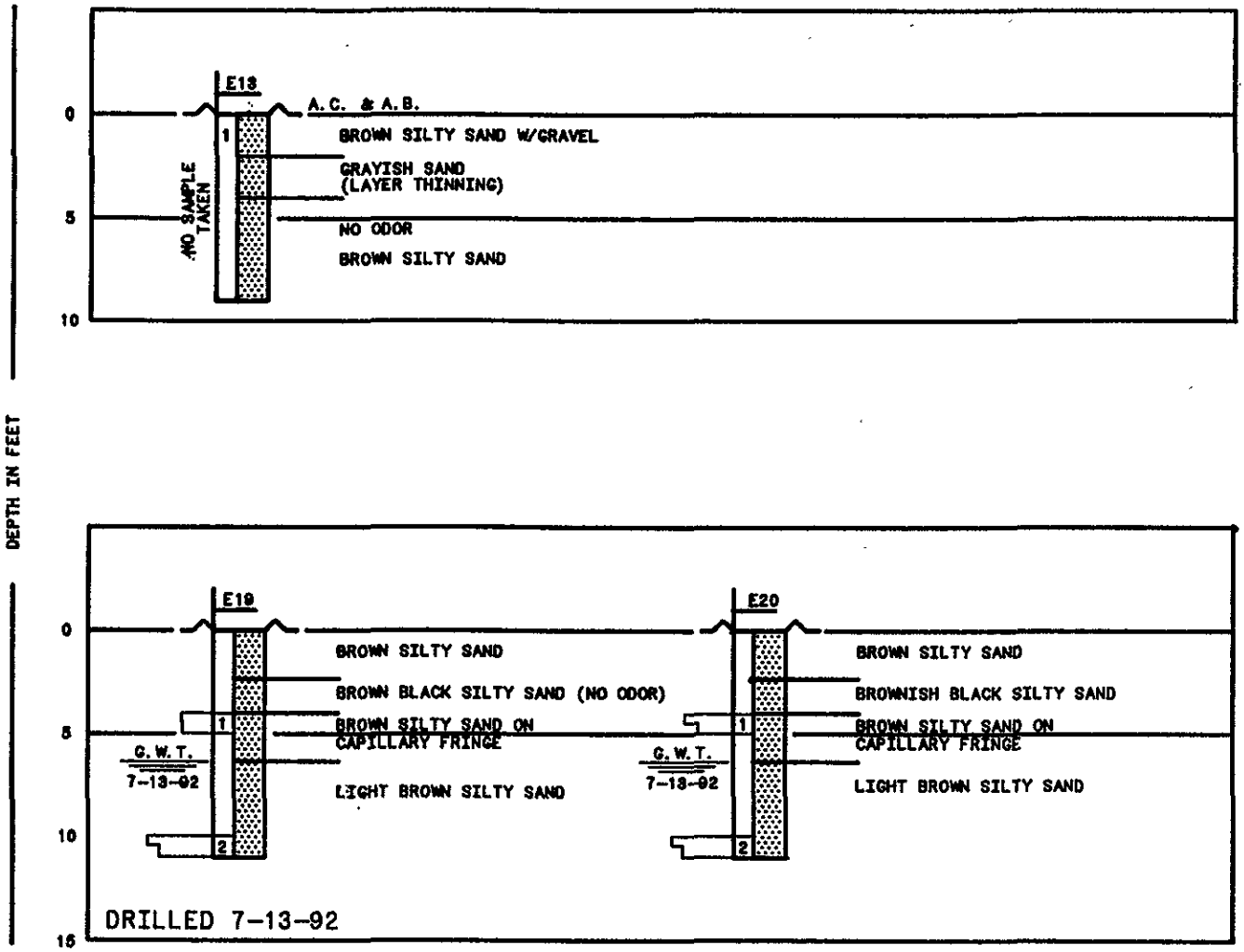
LOCATION MAP

LRA ENVIRONMENTAL
3235 SUNRISE BLVD, STE 5
RANCHO CORDOVA CA 95742

DATE 18-AUG-92

DRWG. NO. 9170E-2

PLATE NUMBER 2



SCALE

50 40 30 20 10 0
BLOWS PER FOOT

The lines designating the interface between types of soils on the soil profiles are determined by interpolation and are therefore approximations. The transition between the materials may be abrupt or gradual. Only at the boring locations should profiles be considered as resonably accurate.

TACO BELL ALAMEDA
SOIL PROFILE
LRA ENVIRONMENTAL
DATE 7-JAN-92
DRWG. NO. E9170-2

PLATE NUMBER 6

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

For District Use Only

Application No. _____
GDF No. _____
Plant No. _____
Source No. _____

GASOLINE DISPENSING FACILITY (GDF)

PERMIT APPLICATION

Business Name TACO BELL
Equipment Address 1900 WEBSTER STREET City ALAMEDA Zip _____
Facility Owner/Operator DAN MUNDY Phone (510) 887-7200

Renewal Billing Address
25546 SEABOARD LANE
HAYWARD, CA.

Name and Address where Authority to Construct is to be sent if different from above

Reason for Application:
( ) New Construction (complete reverse side)
( ) Modification (complete reverse side)
( ) Transfer of Ownership: Date _____
(✓) Other OVER EXCAVATING OVER 100 YARDS of AIREATING OVER 100 YARDS

Violation Notice No. _____ **Date of tank installation** (for non-retail facilities only) _____

Facility Type (check one):
( ) Retail Vehicle Commercial ( ) Retail Aircraft ( ) Business Fleet
( ) Retail Vehicle Government ( ) Retail Marine ( ) Other _____
( ) Retail Vehicle Rental ( ) Agricultural

Type of Gasoline	Tank Size Gallons	Throughput Gallons/Month	Number of Nozzles		Submerged Fill Drop Tube
			Existing	Proposed	Yes /No

Vapor Recovery Equipment:
Phase I – ( ) Two Point
( ) Coaxial
( ) None-Exempt (Give Reason): _____
Phase II – ( ) Balance System
( ) Aspirator Assist
( ) Vacuum Assist
( ) None/Exempt (Give Reason): _____

Project Description: ENVIRONMENTAL CLEAN-UP
(Use Additional Sheet if necessary) _____
Signature & Title OPERATION SUPERVISOR : Merlin Bowen **Date** 6-1-92
Name Printed U.C.I. OF CAL. BY : MERLIN BOWEN **Phone** (510) 568-1234

Form P-101G (mc:7/88)

NOTE:
MERLIN TALKED TO TONY 6/2/92

MATRIX
ENVIRONMENTAL LABORATORIES INC.

LRA Environmental
3235 Sunrise Boulevard
Suite "E"
Rancho Cordova, Ca 95742

7/20/92

ATTN: Mike Miles

Re: Project: Taco Bell Alameda
Lab Reference Number: 3403
Date Samples Received: 7/14/92
No. Samples Received: 6

The samples were received by Matrix Environmental Laboratories intact and in good condition. Samples conformed to required sampling protocols for the requested analyses and were acompanied by required documentation.

Please call if we can be of further assistance.

Sincerely,

Larry A. Mooney, PhD
Laboratory Director

MATRIX
CHAIN OF CUSTODY NO. ■ 3403

MATRIX ENVIRONMENTAL LABORATORIES (916) 635-3962 FAX: (916) 635-9331

C.O.C. - LOG-IN

PROJECT I.D. LAA Taco Bell Alameda

PAGE 1 OF 1

CLIENT CHAIN OF CUSTODY #

LAB I.D. #	SAMPLE I.D.	DATE SAMPLED	TIME SAMPLED	MATRIX	NO. of CONTAINERS		BTEX	TPH (TPH-G)	TPH-D & K	624/8240	625/8270	418/O&G	5520/503 O&G	METALS	SAMPLE CONDITION ICED
922280	West tank 5'	7-13	—	Soil	ϕ	1	X	X	X						
922281	East tank 5' Composite	7-13	—	Soil	ϕ	2	X	X	X						
922282	East tank 10'														
922283	Waste oil 2' Composite	7-13	—	Soil	ϕ	2	■	X	X	X	X	X			
922284	Waste oil 3'														
922285	Waste oil 10'	7-13	—		ϕ	1		X	X	X	X	X			

COMMENTS:

3 day TAT

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
	7-14-93 1120	

Special Instructions

Report To:

Bill To:

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
CONTACT: B. Nicholson
Date Samples Received: 7/14/92
PROJECT: Taco Bell-Alameda
Date of Analysis: 07/14/92
CT ID: 3403
Sample ID: West Tank 5'
Lab ID: 922280
Matrix: SOIL

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015
SURROGATE RECOVERY		ACCEPTABLE RANGE
	97.51	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

3017 KILGORE ROAD #110 • RANCHO CORDOVA, CA 95742 PHONE (916) 635-3962 • FAX (916) 635-9331

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
CONTACT: B. Nicholson
Date Samples Received: 7/14/92
PROJECT: Taco Bell-Alameda
Date of Analysis: 07/14/92
CT ID: 3403
Sample ID: East Tank 5', 10'
Lab ID: 922281-82
Matrix: SOIL

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.21	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	0.49	0.015

SURROGATE RECOVERY	ACCEPTABLE RANGE
100.52	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 7/14/92
Date of Analysis: 07/14/92
Sample ID: West Tank 5'
Lab ID: 922280
Matrix: SOIL

CONTACT: B. Nicholson
PROJECT: Taco Bell-Alameda
CT ID: 3403

ANALYSIS: TPH-GASOLINE by EPA 5030 PURGE-AND-TRAP

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1

SURROGATE RECOVERY	ACCEPTABLE RANGE
94.99	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 7/14/92
Date of Analysis: 07/14/92
Sample ID: East Tank 5', 10'
Lab ID: 922281-82
Matrix: SOIL

CONTACT: B. Nicholson
PROJECT: Taco Bell-Alameda
CT ID: 3403

ANALYSIS: TPH-GASOLINE by EPA 5030 PURGE-AND-TRAP

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	33.	1

SURROGATE RECOVERY	ACCEPTABLE RANGE
150.15	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

NOTE: Due to matrix interference, surrogate recovery adversely effected.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 7/14/92
Date of Analysis: 07/14/92
Sample ID: Waste Oil 2', 3'
Lab ID: 922283-84
Matrix: SOIL

CONTACT: B. Nicholson
PROJECT: Taco Bell-Alameda
CT ID: 3403

ANALYSIS: TPH-GASOLINE by EPA 5030 PURGE-AND-TRAP

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1

SURROGATE RECOVERY	ACCEPTABLE RANGE
94.20	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA
Date Samples Received: 07/13/92
Date of Analysis: 07/15/92
Sample ID: WASTE OIL 10'
Lab ID: 922285
Matrix: SOIL

CONTACT: R NICHOLOSON
P.O. No:
CT ID: 3403

ANALYSIS: Purgeable Organics Modified Method8240LL File: G1511.D

ANALYTES	CONCENTRATION ug/Kg(ppb)	REPORTING LIMIT(ppb)
1,1,1-trichloroethane	ND	5
1,1,2,2-tetrachloroethane	ND	5
1,1,2-trichloroethane	ND	5
1,1-dichloroethane	ND	5
1,1-dichloroethene	ND	5
1,2-dichlorobenzene	ND	5
1,2-dichloroethane	ND	5
1,2-dichloropropane	ND	5
1,3-dichlorobenzene	ND	5
1,4-dichlorobenzene	ND	5
2-chloroethylvinyl ether	ND	5
benzene	ND	5
bromodichloromethane	ND	5
bromomethane	ND	10
carbon tetrachloride	ND	5
chlorobenzene	ND	5
chloroethane	ND	10
chloroform	ND	5
chloromethane	ND	10
cis-1,3-dichloropropene	ND	5
dibromochloromethane	ND	5
ethylbenzene	ND	5
tetrachloroethene	ND	10
toluene	9.8	5
total xylenes	22.	15
trans-1,2-dichloroethene	ND	5
trans-1,3-dichloropropene	ND	5
trichloroethene	ND	5
trichlorofluoromethane	ND	10
vinyl chloride	ND	10

ND = Not Detected at, or Above the Report Limit

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA
CONTACT: R NICHOLOSON
Date Samples Received: 07/13/92
P.O. No:
Date of Analysis: 07/15/92
CT ID: 3403
Sample ID: WASTE OIL 2'2"&3'5"
Lab ID: 922283&84
Matrix: SOIL
ANALYSIS: Purgeable Organics Modified Method8240LL
File: G1513.D

ANALYTES	CONCENTRATION ug/Kg(ppb)	REPORTING LIMIT(ppb)
1,1,1-trichloroethane	ND	5
1,1,2,2-tetrachloroethane	ND	5
1,1,2-trichloroethane	ND	5
1,1-dichloroethane	ND	5
1,1-dichloroethene	ND	5
1,2-dichlorobenzene	ND	5
1,2-dichloroethane	ND	5
1,2-dichloropropane	ND	5
1,3-dichlorobenzene	ND	5
1,4-dichlorobenzene	ND	5
2-chloroethylvinyl ether	ND	5
benzene	ND	5
bromodichloromethane	ND	5
bromomethane	ND	10
carbon tetrachloride	ND	5
chlorobenzene	ND	5
chloroethane	ND	10
chloroform	ND	5
chloromethane	ND	10
cis-1,3-dichloropropene	ND	5
dibromochloromethane	ND	5
ethylbenzene	ND	5
tetrachloroethene	ND	10
toluene	ND	5
total xylenes	ND	15
trans-1,2-dichloroethene	ND	5
trans-1,3-dichloropropene	ND	5
trichloroethene	ND	5
trichlorofluoromethane	ND	10
vinyl chloride	ND	10

ND = Not Detected at, or Above the Report Limit

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 7/14/92
Date of Analysis: 07/16/92
Sample ID: Waste Oil 10'
Lab ID: 922285
Matrix: SOIL

CONTACT: B. Nicholson
PROJECT: Taco Bell-Alameda
CT ID: 3403

ANALYSIS REPORT: EPA 418.1; OIL & GREASE by IR SPECTROPHOTOMETER

COMPOUND	(mg/Kg) (ppm)	REPORTING LIMIT (ppm)
OIL & GREASE	ND	50

NOTE: (ND) NOT DETECTED AT OR ABOVE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 7/14/92
Date of Analysis: 07/16/92
Sample ID: Waste Oil 2', 3'
Lab ID: 922283-84
Matrix: SOIL

CONTACT: B. Nicholson
PROJECT: Taco Bell-Alameda
CT ID: 3403

ANALYSIS REPORT: EPA 418.1; OIL & GREASE by IR SPECTROPHOTOMETER

COMPOUND	(mg/Kg) (ppm)	REPORTING LIMIT (ppm)
OIL & GREASE	ND	50

NOTE: (ND) NOT DETECTED AT OR ABOVE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 7/14/92
Date of Analysis: 07/14/92
Sample ID: Waste Oil 10'
Lab ID: 922285
Matrix: SOIL

CONTACT: B. Nicholson
PROJECT: Taco Bell-Alameda
CT ID: 3403

ANALYSIS: TPH-GASOLINE by EPA 5030 PURGE-AND-TRAP

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1

SURROGATE RECOVERY	ACCEPTABLE RANGE
94.45	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA — CONTACT: Bob Nicholson
Date Samples Received: 7/14/92 — P.O. No: Taco Bell
Date of Analysis: 07/14/92 — CT ID: 3403
Sample ID: Waste Oil 2'2" & 3'5"
Lab ID: 922283/4
Matrix: SOIL
ANALYSIS: SemiVolatile Organics Modified Method8270 — File: G1405.D

ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
POLYNUCLEAR AROMATICS		
Acenaphthene	ND	0.3
Acenaphthylene	ND	0.3
Anthracene	ND	0.3
Benzo[a]pyrene	ND	0.3
Benzo[b]fluoranthene	ND	0.3
Benzo[g,h,i]perylene	ND	0.3
Benzyl alcohol	ND	0.6
Benzo[k]fluoranthene	ND	0.3
Chrysene	ND	0.3
Dibenzo[a,h]anthracene	ND	0.3
Fluoranthene	ND	0.3
Fluorene	ND	0.3
Indeno(1,2,3-c,d)pyrene	ND	0.3
Naphthalene	ND	0.3
Phenanthrene	ND	0.3
Pyrene	ND	0.3
POLYCHLOROBIPHENYLS(PCB)		
AROCLOR 1016	ND	0.6
AROCLOR 1221	ND	0.6
AROCLOR 1232	ND	0.6
AROCLOR 1242	ND	0.6
AROCLOR 1248	ND	0.6
AROCLOR 1254	ND	0.6
AROCLOR 1260	ND	0.6
ANILINES		
4-Chloroaniline	ND	0.6
2-Nitroaniline	ND	1.5
3-Nitroaniline	ND	1.5
4-Nitroaniline	ND	1.5

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
CONTACT: M. Miles
Date Samples Received: 7/14/92
P.O. No: Taco Bell Alameda
Date of Analysis: 07/17/92
CT ID: 3403
Sample ID: Waste Oil 10'
Lab ID: 922285
Matrix: SOIL

ANALYSIS: TPH, EPA 8015

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
KEROSINE	ND	1.
DIESEL	4.	1.

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
CONTACT: M. Miles
Date Samples Received: 7/14/92
P.O. No: Taco Bell Alameda
Date of Analysis: 07/17/92
CT ID: 3403
Sample ID: Waste Oil 2' & 3'
Lab ID: 922283 & 84
Matrix: SOIL

ANALYSIS: TPH, EPA 8015

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
KEROSINE	ND	1.
DIESEL	8.	1.

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental — CONTACT: M. Miles
Date Samples Received: 7/14/92 — P.O. No: Taco Bell Alameda
Date of Analysis: 07/17/92 — CT ID: 3403
Sample ID: East Tank 5' & 10'
Lab ID: 922281 & 82
Matrix: SOIL

ANALYSIS: TPH, EPA 8015

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
KEROSINE	22.	1.
DIESEL	12.	1.

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
CONTACT: M. Miles
Date Samples Received: 7/14/92
P.O. No: Taco Bell Alameda
Date of Analysis: 07/17/92
CT ID: 3403
Sample ID: West Tank 5'
Lab ID: 922280
Matrix: SOIL

ANALYSIS: TPH, EPA 8015

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
KEROSINE	ND	1.
DIESEL	4.	1.

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA
Date Samples Received: 7/14/92
Date of Analysis: 07/15/92
Sample ID: Waste Oil 10'
Lab ID: 922285
Matrix: SOIL

CONTACT: Bob Nicholson
P.O. No: Taco Bell
CT ID: 3403

ANALYSIS: SemiVolatile Organics Modified Method8270 File: G1408.D

ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
PHENOLS		
Pentachlorophenol	ND	0.3
Phenol	ND	0.3
2-Chlorophenol	ND	0.3
2-Methylphenol	ND	0.3
4-Methylphenol	ND	0.3
2-Nitrophenol	ND	0.3
2,4-Dichlorophenol	ND	0.3
4-Chloro-3-methylphenol	ND	0.3
2,4,5-Trichlorophenol	ND	0.3
2,4,6-Trichlorophenol	ND	0.3
4-Nitrophenol	ND	0.3
2-Methyl-4,6-dinitrophenol	ND	0.3
CREOSOTE	ND	0.3

SURROGATE RECOVERY

Surrogate	Amount	Spike	Recovery	Range
2-Fluorophenol	79.88	200	39.94	20-100
Phenol-D6	149.81	200	74.90	10- 94
Nitrobenzene-D5	59.87	100	59.87	35-114
2-Fluorobipheny	62.19	100	62.19	43-116
Tribromophenol	35.03	200	17.51	10-123
4-Terphenyl-D14	137.00	100	137.00	33-141

ND = Not detected at or above the Report Limit.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA
Date Samples Received: 7/14/92
Date of Analysis: 07/15/92
Sample ID: Waste Oil 10'
Lab ID: 922285
Matrix: SOIL

CONTACT: Bob Nicholson
P.O. No: Taco Bell
CT ID: 3403

ANALYSIS: SemiVolatile Organics Modified Method8270 File: G1408.D

ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
POLYNUCLEAR AROMATICS		
Acenaphthene	ND	0.3
Acenaphthylene	ND	0.3
Anthracene	ND	0.3
Benzo[a]pyrene	ND	0.3
Benzo[b]fluoranthene	ND	0.3
Benzo[g,h,i]perylene	ND	0.3
Benzyl alcohol	ND	0.6
Benzo[k]fluoranthene	ND	0.3
Chrysene	ND	0.3
Dibenzo[a,h]anthracene	ND	0.3
Fluoranthene	ND	0.3
Fluorene	ND	0.3
Indeno(1,2,3-c,d)pyrene	ND	0.3
Naphthalene	ND	0.3
Phenanthrene	ND	0.3
Pyrene	ND	0.3
POLYCHLOROBIPHENYLS(PCB)		
AROCLOR 1016	ND	0.6
AROCLOR 1221	ND	0.6
AROCLOR 1232	ND	0.6
AROCLOR 1242	ND	0.6
AROCLOR 1248	ND	0.6
AROCLOR 1254	ND	0.6
AROCLOR 1260	ND	0.6
ANILINES		
4-Chloroaniline	ND	0.6
2-Nitroaniline	ND	1.5
3-Nitroaniline	ND	1.5
4-Nitroaniline	ND	1.5

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA
CONTACT: Bob Nicholson
Date Samples Received: 7/14/92
P.O. No: Taco Bell
Date of Analysis: 07/14/92
CT ID: 3403
Sample ID: Waste Oil 2'2" & 3'5"
Lab ID: 922283/4
Matrix: SOIL
ANALYSIS: SemiVolatile Organics Modified Method8270
File: G1405.D

ANALYTES	CONCENTRATION mg/Kg(ppm)	REPORTING LIMIT(ppm)
PHENOLS		
Pentachlorophenol	ND	0.3
Phenol	ND	0.3
2-Chlorophenol	ND	0.3
2-Methylphenol	ND	0.3
4-Methylphenol	ND	0.3
2-Nitrophenol	ND	0.3
2,4-Dichlorophenol	ND	0.3
4-Chloro-3-methylphenol	ND	0.3
2,4,5-Trichlorophenol	ND	0.3
2,4,6-Trichlorophenol	ND	0.3
4-Nitrophenol	ND	0.3
2-Methyl-4,6-dinitrophenol	ND	0.3
CREOSOTE	ND	0.3

SURROGATE RECOVERY

Surrogate	Amount	Spike	Recovery	Range
2-Fluorophenol	96.58	200	48.29	20-100
Phenol-D6	157.58	200	78.79	10- 94
Nitrobenzene-D5	64.20	100	64.20	35-114
2-Fluorobipheny	65.78	100	65.78	43-116
Tribromophenol	32.20	200	16.10	10-123
4-Terphenyl-D14	149.30	100	149.30	33-141

ND = Not detected at or above the Report Limit.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #1
Lab ID: 921648
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015
SURROGATE RECOVERY		ACCEPTABLE RANGE
	96.36	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #2
Lab ID: 921649
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015

SURROGATE RECOVERY		ACCEPTABLE RANGE
	91.72	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #3
Lab ID: 921650
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015

SURROGATE RECOVERY		ACCEPTABLE RANGE
	89.87	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #4
Lab ID: 921651
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015
SURROGATE RECOVERY		ACCEPTABLE RANGE
	94.53	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #5
Lab ID: 921652
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015

SURROGATE RECOVERY		ACCEPTABLE RANGE
	86.71	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #6
Lab ID: 921653
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015
SURROGATE RECOVERY		ACCEPTABLE RANGE
	93.47	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #7
Lab ID: 921654
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015

SURROGATE RECOVERY		ACCEPTABLE RANGE
	87.69	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #8
Lab ID: 921655
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015
SURROGATE RECOVERY		ACCEPTABLE RANGE
	84.51	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #9
Lab ID: 921657
Matrix: WATER

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX EPA 602

COMPOUND	ug/L (ppb)	REPORTING LIMIT (ppb)
BENZENE	29.	1.5
TOLUENE	130.	1.5
ETHYLBENZENE	ND	1.5
XYLENES	2,800.	4.5

SURROGATE RECOVERY		ACCEPTABLE RANGE
	81.99	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1: 5 ratio and the reporting limits adjusted accordingly

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #12
Lab ID: 921659
Matrix: WATER

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX EPA 602

COMPOUND	ug/L (ppb)	REPORTING LIMIT (ppb)
BENZENE	16.	1.5
TOLUENE	400.	1.5
ETHYLBENZENE	200.	1.5
XYLENES	2,300.	4.5

SURROGATE RECOVERY	ACCEPTABLE RANGE
81.91	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1: 5 ratio and the reporting limits adjusted accordingly

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #1
Lab ID: 921648
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1
SURROGATE RECOVERY		ACCEPTABLE RANGE
	112.79	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #2
Lab ID: 921649
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1

SURROGATE RECOVERY	ACCEPTABLE RANGE
100.47	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #3
Lab ID: 921650
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1
SURROGATE RECOVERY		ACCEPTABLE RANGE
	110.78	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #4
Lab ID: 921651
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1

SURROGATE RECOVERY	ACCEPTABLE RANGE
105.13	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #5
Lab ID: 921652
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1
SURROGATE RECOVERY		ACCEPTABLE RANGE
	111.79	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #6
Lab ID: 921653
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1
SURROGATE RECOVERY		ACCEPTABLE RANGE
	81.56	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #7
Lab ID: 921654
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1
SURROGATE RECOVERY		ACCEPTABLE RANGE
	110.31	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #8
Lab ID: 921655
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1

SURROGATE RECOVERY	ACCEPTABLE RANGE
106.31	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #9
Lab ID: 921657
Matrix: WATER

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/L (ppm)	REPORTING LIMIT mg/L (ppm)
GASOLINE	29.	0.25
SURROGATE RECOVERY	75.43	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1: 5 ratio and the reporting limits adjusted accordingly

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: 6/3/92
Date of Analysis: 06/03/92
Sample ID: #12
Lab ID: 921659
Matrix: WATER

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/L (ppm)	REPORTING LIMIT mg/L (ppm)
GASOLINE	21.	0.25

SURROGATE RECOVERY	ACCEPTABLE RANGE
101.89	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1: 5 ratio and the reporting limits adjusted accordingly

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
Date Samples Received: N/A
Date of Analysis: 06/03/92
Sample ID: N/A
Lab ID: Method Blank
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX, EPA 8020

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
XYLENES	ND	0.015

SURROGATE RECOVERY		ACCEPTABLE RANGE
	97.34	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

Date Samples Received: N/A
Date of Analysis: 06/03/92
Sample ID: LCS, LCSD
Lab ID: N/A
Matrix: SOIL

PROJECT: Taco Bell-Alameda
CT ID: 3337

BTEX LABORATORY CONTROL SPIKE SUMMARY

COMPOUND	CONC SPIKED	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
BENZENE	1.25	0.92	0.94	74%	75%	2%
TOLUENE	1.25	0.88	0.9	70%	72%	2%
ETHYL BENZENE	1.25	0.79	0.81	63%	65%	3%
TOTAL XYLENES	3.75	2.52	2.58	67%	69%	2%

LCS= LABORATORY CONTROL SPIKE
LCSD= LABORATORY CONTROL SPIKE DUPLICATE
RPD= RELATIVE PERCENT DIFFERENCE
CONC= CONCENTRATION

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
Date Samples Received: N/A
Date of Analysis: 06/03/92
Sample ID: N/A
Lab ID: Method Blank
Matrix: SOIL

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
GASOLINE	ND	1
SURROGATE RECOVERY		ACCEPTABLE RANGE
	113.32	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

Date Samples Received: N/A
Date of Analysis: 06/03/92
Sample ID: LCS, LCSD
Lab ID: N/A
Matrix: SOIL

PROJECT: Taco Bell-Alameda
CT ID: 3337

TFH LABORATORY CONTROL SPIKE SUMMARY

COMPOUND	CONC SPIKED	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
GASOLINE	2.5	1.8	1.8	72%	72%	0%

LCS= LABORATORY CONTROL SPIKE
LCSD= LABORATORY CONTROL SPIKE DUPLICATE
RPD= RELATIVE PERCENT DIFFERENCE
CONC= CONCENTRATION

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT
CLIENT: LRA Environmental
Date Samples Received: N/A
Date of Analysis: 06/03/92
Sample ID: N/A
Lab ID: Method Blank
Matrix: WATER

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: BTEX EPA 602

COMPOUND	ug/L (ppb)	REPORTING LIMIT (ppb)
BENZENE	ND	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.3
XYLENES	ND	0.9
SURROGATE RECOVERY		ACCEPTABLE RANGE
	85.43	70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

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MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

Date Samples Received: N/A
Date of Analysis: 06/03/92
Sample ID: LCS, LCSD
Lab ID: N/A
Matrix: WATER

PROJECT: Taco Bell-Alameda
CT ID: 3337

BTEX LABORATORY CONTROL SPIKE SUMMARY

COMPOUND	CONC SPIKED	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
BENZENE	25	21	22	84%	88%	5%
TOLUENE	25	22	22	88%	88%	0%
ETHYL BENZENE	25	21	21	84%	84%	0%
TOTAL XYLENES	75	65	65	87%	87%	0%

LCS= LABORATORY CONTROL SPIKE
LCSD= LABORATORY CONTROL SPIKE DUPLICATE
RPD= RELATIVE PERCENT DIFFERENCE
CONC= CONCENTRATION

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

CLIENT: LRA Environmental
Date Samples Received: N/A
Date of Analysis: 06/03/92
Sample ID: N/A
Lab ID: Method Blank
Matrix: WATER

CONTACT: M. Miles
PROJECT: Taco Bell-Alameda
CT ID: 3337

ANALYSIS: TFH, EPA 5030

COMPOUND	mg/L (ppm)	REPORTING LIMIT mg/L (ppm)
GASOLINE	ND	0.05
SURROGATE RECOVERY	102.30	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES
ANALYSIS REPORT

Date Samples Received: N/A
Date of Analysis: 06/03/92
Sample ID: LCS, LCSD
Lab ID: N/A
Matrix: WATER

PROJECT: Taco Bell-Alameda
CT ID: 3337

TFH LABORATORY CONTROL SPIKE SUMMARY

COMPOUND	CONC SPIKED	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
GASOLINE	0.04	0.037	0.037	93%	93%	0%

LCS= LABORATORY CONTROL SPIKE
LCSD= LABORATORY CONTROL SPIKE DUPLICATE
RPD= RELATIVE PERCENT DIFFERENCE
CONC= CONCENTRATION

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Analysis Report: BTEX, Soluble, Toxicity Characterization Leaching Procedure
EPA Methods 1311 / 5030 / 8020

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Sampled: 06/15/92
Date Received: 06/16/92
Date Extracted: 06/18/92
Date Analyzed: 06/19/92
Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 9425
Matrix: TCLEACHATE

SURROGATE RECOVERY

Sample I.D. Client	AELC	o-Chlorotoluene CAS No. 95-49-8 (percent)
S.W. #1 ZHLeachate	1B	102
Center #2 ZHLeachate	2B	114
NE #3 ZHLeachate	3B	104
Surr Conc. (ug/L)		20

ANALYTE

Sample I.D. Client	AELC	Benzene 71-43-2 (ug/L)	Toluene 108-88-3 (ug/L)	Ethylbenzene 100-41-4 (ug/L)	Xylenes, total 1330-20-7 (ug/L)
S.W. #1 ZHLeachate	1B	ND	1.3	0.9	45
Center #2 ZHLeachate	2B	0.9	5.6	5.8	40
NE #3 ZHLeachate	3B	ND	1.1	0.5	5.5
Rep. Limit		0.5	0.5	0.5	1.0

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

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Analysis Report: Sulfide, Standard Method 9030

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Sampled: 06/15/92
Date Received: 06/16/92
Date Prepared: N/A
Date Analyzed: 06/22/92
Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 54053
Matrix: SOIL

ANALYTE

Sample I.D. Client	AELC	Sulfide (mg/kg)
NW. #4	4A	ND
Rep. Limit		25

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

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Analysis Report: **Flash Point by Pensky-Martens Closed Cup, EPA Method 1010**

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Sampled: 06/15/92
Date Received: 06/16/92
Date Prepared: N/A
Date Analyzed: 06/22/92
Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 54078
Matrix: SOIL

MEASUREMENT

Sample I.D. Client	AELC	Flash Point (Degrees F)
NW. #4	4A	>140

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Analysis Report: Total Cyanide, EPA Method 9010

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 54069
Matrix: SOIL

Date Sampled: 06/15/92
Date Received: 06/16/92
Date Prepared: N/A
Date Analyzed: 06/19/92
Date Reported: 06/23/92

ANALYTE

Sample I.D. Client	AELC	Cyanide CAS No. 57-12-5 (mg/kg)
NW. #4	4A	ND
Rep. Limit		1.0

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

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Analysis Report: pH , EPA Method 9045

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Sampled: 06/15/92
Date Received: 06/16/92
Date Prepared: N/A
Date Analyzed: 06/18/92
Date Reported: 06/19/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 54063
Matrix: SOIL

MEASUREMENT

Sample I.D. Client	AELC	pH (Standard Units)
NW. #4	4A	8.6

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LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

06/23/92

Attention: Mike Miles

Reference: Analytical Results

Project Name: Taco Bell- Alameda
Project No.:
Date Received: 06/16/92
Chain Of Custody: 27285

AELC ID No.: L9119
AELC Job No.: 799119

The following analyses were performed on the above referenced project:

No. of Samples	*Turnaround Time*	*Analysis Description*
1	7 Days	Total Sulfide
1	7 Days	Flash Point
3	7 Days	BTEX by Modified EPA 8020
1	7 Days	Total Cyanide, EPA Method 9010
1	7 Days	pH measurement, electrometric

These samples were received by American Environmental Laboratories in a chilled, intact state and accompanied by a valid chain of custody document.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

George Hampton
Laboratory Director

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Analysis Report: **Sulfide, Standard Method 9030**

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Prepared: N/A
Date Analyzed: 06/22/92
Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 54053
Matrix: SOIL

METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Sulfide	N/A	ND	25

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

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Analysis Report: **Sulfide, Standard Method 9030**

Client: **LRA Environmental**
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: **Taco Bell- Alameda**

Date Prepared: **N/A**
Date Analyzed: **06/22/92**
Date Reported: **06/23/92**

Project No.:
Contact: **Mike Miles**
Phone: **(916)631-4455**

AELC Contact: **Mark Smith**
Job No.: **799119**
COC Log No.: **27285**
AELC ID No.: **L9119**
Batch No.: **54053**
Matrix: **SOIL**

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Sulfide	N/A	1250	91

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Sulfide	N/A	1250	86

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Sulfide	N/A	6

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CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Sulfide, Standard Method 9030

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 54053
Matrix: SOIL

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Sulfide	N/A	50	94

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Analysis Report: BTEX, Soluble, Toxicity Characterization Leaching Procedure
EPA Methods 1311 / 5030 / 8020

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Extracted: 06/18/92
Date Analyzed: 06/19/92
Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 9425
Matrix: TCLEACHATE

MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	103

METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Benzene	71-43-2	ND	0.5
Toluene	108-88-3	ND	0.5
Ethylbenzene	100-41-4	ND	0.5
Xylenes, total	1330-20-7	ND	1.0

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

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CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: BTEX, Soluble, Toxicity Characterization Leaching Procedure
EPA Methods 1311 / 5030 / 8020

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Extracted: 06/18/92
Date Analyzed: 06/19/92
Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 9425
Matrix: TCLEACHATE

MB SPIKE SURROGATE

Analyte	CAS No.	MBS Surr. Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	103

MB SPIKE

Analyte	CAS No.	MBS Conc. (ug/L)	MBS Recovery (percent)
Benzene	71-43-2	20	89
Toluene	108-88-3	20	87
Ethylbenzene	100-41-4	20	98
Xylenes, total	1330-20-7	60	94

MB SPIKE DUPLICATE SURR.

Analyte	CAS No.	MBSD Surr. Conc. (ug/L)	MBSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	103

MB SPIKE DUPLICATE

Analyte	CAS No.	MBSD Conc. (ug/L)	MBSD Recovery (percent)
Benzene	71-43-2	20	97
Toluene	108-88-3	20	92
Ethylbenzene	100-41-4	20	91
Xylenes, total	1330-20-7	60	99

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CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: BTEX, Soluble, Toxicity Characterization Leaching Procedure
EPA Methods 1311 / 5030 / 8020

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Extracted: 06/18/92
Date Analyzed: 06/19/92
Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 9425
Matrix: TCLEACHATE

MB SPIKE RPD

Analyte	CAS No.	MBS Relative Percent Difference (percent)
Benzene	71-43-2	9
Toluene	108-88-3	6
Ethylbenzene	100-41-4	7
Xylenes, total	1330-20-7	5

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CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: **BTEX, Soluble, Toxicity Characterization Leaching Procedure EPA Methods 1311 / 5030 / 8020**

Client: **LRA Environmental**
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: **Taco Bell- Alameda**

Date Reported: **06/23/92**

Project No.:
Contact: **Mike Miles**
Phone: **(916)631-4455**

AELC Contact: **Mark Smith**
Job No.: **799119**
COC Log No.: **27285**
AELC ID No.: **L9119**
Batch No.: **9425**
Matrix: **TCLEACHATE**

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Benzene	71-43-2	20	104
Toluene	108-88-3	20	96

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CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: **Total Cyanide, EPA Method 9010**

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Prepared: N/A
Date Analyzed: 06/19/92
Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 54069
Matrix: SOIL

METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Cyanide	57-12-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

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CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: **Total Cyanide, EPA Method 9010**

Client: LRA Environmental
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: Taco Bell- Alameda

Date Prepared: N/A
Date Analyzed: 06/19/92
Date Reported: 06/23/92

Project No.:
Contact: Mike Miles
Phone: (916)631-4455

AELC Contact: Mark Smith
Job No.: 799119
COC Log No.: 27285
AELC ID No.: L9119
Batch No.: 54069
Matrix: SOIL

MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Cyanide	57-12-5	5.0	83

MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Cyanide	57-12-5	5.0	82

RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cyanide	57-12-5	1

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CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: **Total Cyanide, EPA Method 9010**

Client: **LRA Environmental**
3235 Sunrise Blvd. Ste. 5
Rancho Cordova, CA 95742

Project: **Taco Bell- Alameda**

Date Reported: **06/23/92**

Project No.:
Contact: **Mike Miles**
Phone: **(916)631-4455**

AELC Contact: **Mark Smith**
Job No.: **799119**
COC Log No.: **27285**
AELC ID No.: **L9119**
Batch No.: **54069**
Matrix: **SOIL**

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Cyanide	57-12-5	0.20	84