



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

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## FAX TRANSMISSION

**To:**

NAME

*Michael James*

*465-3755*

FAX NUMBER

COMPANY

**From:**

NAME

*Louise Brown*

**Reference:**

**Message:**

Multiple horizontal lines for writing the message content.

If you do not receive all pages, Please Call (510) 486-0900 Page: \_\_\_\_\_ of \_\_\_\_\_

Date: \_\_\_\_\_



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112436  
CLIENT: URIBE & ASSOCIATES  
PROJECT ID: 96-209  
LOCATION: SHIPPERS IMPERIAL

DATE SAMPLED: 09/23/93  
DATE RECEIVED: 09/24/93  
DATE EXTRACTED: 09/24/93  
DATE ANALYZED: 09/28/93  
DATE REPORTED: 09/28/93

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)	MOTOR OIL RANGE (mg/Kg)
112436-1	S-4	ND (1)	ND (1)	ND (30)
112436-2	S-5	ND (1)	ND (1)	ND (30)

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

QA/QC SUMMARY

RPD, %	
RECOVERY, %	103



LABORATORY NUMBER: 112436-1  
CLIENT: URIBE & ASSOCIATES  
PROJECT ID: 96-209  
LOCATION: SHIPPERS IMPERIAL  
SAMPLE ID: S-4

DATE SAMPLED: 09/23/93  
DATE RECEIVED: 09/24/93  
DATE ANALYZED: 09/27/93  
DATE REPORTED: 09/28/93

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Cadmium	ND	mg/Kg	0.3	EPA 6010
Chromium	28	mg/Kg	0.5	EPA 6010
Lead	ND	mg/Kg	5	EPA 7420
Nickel	36	mg/Kg	2	EPA 6010
Zinc	22	mg/Kg	1	EPA 6010

ND = Not detected at or above reporting limit.

QA/QC SUMMARY	RPD, %	Recovery, %
Cadmium	<1	93
Chromium	3	99
Lead	4	98
Nickel	4	100
Zinc	1	96



LABORATORY NUMBER: 112436-2  
CLIENT: URIBE & ASSOCIATES  
PROJECT ID: 96-209  
LOCATION: SHIPPERS IMPERIAL  
SAMPLE ID: S-5

DATE SAMPLED: 09/23/93  
DATE RECEIVED: 09/24/93  
DATE ANALYZED: 09/27/93  
DATE REPORTED: 09/28/93

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Cadmium	ND	mg/Kg	0.3	EPA 6010
Chromium	33	mg/Kg	0.5	EPA 6010
Lead	ND	mg/Kg	5	EPA 7420
Nickel	36	mg/Kg	2	EPA 6010
Zinc	18	mg/Kg	1	EPA 6010

ND = Not detected at or above reporting limit.

QA/QC SUMMARY	RPD, %	Recovery, %
Cadmium	<1	93
Chromium	3	99
Lead	4	98
Nickel	4	100
Zinc	1	96

LABORATORY NUMBER: 112436-1  
 CLIENT: URIBE & ASSOCIATES  
 PROJECT ID: 96-209  
 LOCATION: SHIPPERS IMPERIAL  
 SAMPLE ID: S-4

DATE SAMPLED: 09/23/93  
 DATE RECEIVED: 09/24/93  
 DATE ANALYZED: 09/24/93  
 DATE REPORTED: 09/28/93

EPA 8010: Volatile Halocarbons in Soil & Wastes  
 Extraction Method: EPA 5030 - Purge & Trap

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	10
Trichlorofluoromethane	ND	20
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
1,1,2-Trichloroethane	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
Bromoform	ND	5
Tetrachloroethene	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Chlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

Surrogate Recovery, %

97

LABORATORY NUMBER: 112436-2  
 CLIENT: URIBE & ASSOCIATES  
 PROJECT ID: 96-209  
 LOCATION: SHIPPERS IMPERIAL  
 SAMPLE ID: S-5

DATE SAMPLED: 09/23/93  
 DATE RECEIVED: 09/24/93  
 DATE ANALYZED: 09/24/93  
 DATE REPORTED: 09/28/93

EPA 8010: Volatile Halocarbons in Soil & Wastes  
 Extraction Method: EPA 5030 - Purge & Trap

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
1,1,2-Trichloroethane	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
Bromoform	ND	10
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

Surrogate Recovery, %

102

LABORATORY NUMBER: 112436-METHOD BLANK  
 CLIENT: URIBE & ASSOCIATES  
 PROJECT ID: 96-209  
 LOCATION: SHIPPERS IMPERIAL

DATE ANALYZED: 09/24/93  
 DATE REPORTED: 09/28/93

*sample?*

EPA 8010: Volatile Halocarbons in Soil & Wastes  
 Extraction Method: EPA 5030 - Purge & Trap

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
1,1,2-Trichloroethane	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
Bromoform	ND	10
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

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Surrogate Recovery, %	100
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## MS/MSD SUMMARY SHEET FOR EPA 8010

Laboratory Number: 112441  
 Client: Uribe & Associates  
 Analysis date: 09/25/93  
 Sample type: Soil  
 Spike file: 267w026  
 Spike dup file: 267w027

## 8010 MS/MSD DATA (spiked at 20 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	20.2	101 %	OK	59 - 172
Trichloroethene	23.0	115 %	OK	62 - 137
Chlorobenzene	23.0	115 %	OK	60 - 133
SPIKE DUP COMPOUNDS				
1,1-Dichloroethene	23.6	118 %	OK	59 - 172
Trichloroethene	28.2	141 %	NOT OK	62 - 137
Chlorobenzene	26.7	134 %	NOT OK	60 - 133
SURROGATES				
Bromobenzene (MS)	114.2	114 %	OK	59 - 172
Bromobenzene (MSD)	107.1	107 %	OK	59 - 172
MATRIX RESULTS				
1,1-Dichloroethene	0			
Trichloroethene	0			
Chlorobenzene	0			

## RPD DATA

8010 COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	20.20	23.60	16 %	OK	<= 22
Trichloroethene	23.00	28.25	20 %	OK	<= 24
Chlorobenzene	23.01	26.71	15 %	OK	<= 21



## LCS SUMMARY SHEET FOR EPA 8010

Laboratory Number: 112441  
 Client: Uribe & Associates  
 Analysis date: 09/25/93  
 Sample type: Water

LCS spike file: 267w003

## 8010 LCS DATA (spiked at 20 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	16.7	84 %	OK	61 - 145
Trichloroethene	20.0	100 %	OK	71 - 120
Chlorobenzene	19.5	98 %	OK	75 - 130
<b>SURROGATES</b>				
Bromobenzene (LCS)	99.2	99 %	OK	75 - 125

Client: Uribe & Associates

Laboratory Login Number: 112436

Project Name: Shipper Imperial  
Project Number: 96-209

Report Date: 28 September 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) METHOD: SMWW 17:5520BF

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
112436-001	8-4	Soil	23-SEP-93	24-SEP-93	27-SEP-93	ND	mg/Kg	50	TR	10720
112436-002	8-5	Soil	23-SEP-93	24-SEP-93	27-SEP-93	ND	mg/Kg	50	TR	10720

ND = Not Detected at or above Reporting Limit (RL).

**Q C Batch Report**

Client: Uribe & Associates  
 Project Name: Shipper Imperial  
 Project Number: 96-209

Laboratory Login Number: 112436  
 Report Date: 28 September 93

**ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric)**

**QC Batch Number: 10720**

**Blank Results**

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	50	mg/Kg	SMWW 17:5520EF	27-SEP-93

**Spike/Duplicate Results**

Sample ID	Recovery	Method	Date Analyzed
BS	88%	SMWW 17:5520EF	27-SEP-93
BSD	82%	SMWW 17:5520EF	27-SEP-93

Average Spike Recovery  
 Relative Percent Difference

85%  
 7.0%

**Control Limits**  
 80% - 120%  
 < 20%

LABORATORY NUMBER: 112436  
 CLIENT: URIBE & ASSOCIATES  
 PROJECT ID: 96-209  
 LOCATION: SHIPPERS IMPERIAL

DATE SAMPLED: 09/23/93  
 DATE RECEIVED: 09/24/93  
 DATE ANALYZED: 09/28/93  
 DATE REPORTED: 09/28/93

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes  
 California DOHS Method  
 LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)
112436-1	S-4	ND	1
112436-2	S-5	ND	1

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	9
RECOVERY, %	92



URIBE & ASSOCIATES  
 2930 LAKESHORE AVENUE  
 SUITE TWO HUNDRED  
 OAKLAND, CALIFORNIA 94610  
 510-832-2233  
 FAX 510-832-2237

17436

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME					NO. OF CONTAINERS	ANALYSIS							REMARKS
96-209		Shippers Imperial						TPH - motor oil	TPH - Gas/Oil	TPH - Diesel	Oil - Grease	BDID	STZO	STLC Lead	
SAMPLERS: (Signature)												CHECK IF RUSH			
CD												48h N54			
NO.	DATE	TIME	COMP	GRAB	SAMPLE ID.										
1	9/23			-	S-4	1	X	X	X	X	X	X	X		
2	"			-	S-5	1	X	X	X	X	X	X	X		
														Cancel STLC Lead until TPH Pb results are established N.W. Tom Davis 9/24	
Relinquished by: (Signature)			Date/Time			Received by: (Signature)			Date/Time			Received by: (Signature)			
CD															
Relinquished by: (Signature)			Date/Time			Received by: (Signature)			Date/Time			Received by: (Signature)			
Relinquished by: (Signature)			Date/Time			Received in Laboratory by: (Signature)			Date/Time			NAME			
						E. Uribe			9/24/93 10:25			ADDRESS			
												PHONE NO			

SEP 28 '93 15:12 CURTIS & TOMPKINS BERKELEY  
 CURTIS & TOMPKINS  
 SEP 28 '93 04:10PM P. 13



LABORATORY NUMBER: 112439  
CLIENT: URIBE & ASSOCIATES  
PROJECT ID: 96-209  
LOCATION: SHIPPER'S IMPERIAL

DATE SAMPLED: 09/23/93  
DATE RECEIVED: 09/24/93  
DATE EXTRACTED: 09/24/93  
DATE ANALYZED: 09/28/93  
DATE REPORTED: 09/28/93

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)
112439-3	S-1	320	***	10
112439-4	S-2	+++	+++	+++
112439-5	S-3	+++	+++	+++
112439-6	S-6	+++	+++	+++
112439-7	S-7	**	1,200	10
112439-8	S-8	ND	ND	1

ND = Not detected at or above reporting limit.

\* Reporting limit applies to all analytes.

+++ In progress

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

\*\*\* Diesel range not reported due to overlap of hydrocarbon ranges.

QA/QC SUMMARY

RPD, %	10
RECOVERY, %	103



LABORATORY NUMBER: 112439  
CLIENT: URIBE & ASSOCIATES  
PROJECT ID: 96-209  
LOCATION: SHIPPER'S IMPERIAL

DATE SAMPLED: 09/23/93  
DATE RECEIVED: 09/24/93  
DATE ANALYZED: 09/28/93  
DATE REPORTED: 09/28/93

=====

ANALYSIS: LEAD  
ANALYSIS METHOD: EPA 7420

=====

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
112439-3	S-1	ND	mg/Kg	5
112439-4	S-2	44	mg/Kg	5
112439-5	S-3	6	mg/Kg	5
112439-6	S-6	ND	mg/Kg	5
112439-7	S-7	ND	mg/Kg	5
112439-8	S-8	ND	mg/Kg	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY:

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RPD, %	5
RECOVERY, %	98

=====



URIBE & ASSOCIATES  
2930 LAKESHORE AVENUE  
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102479

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	ANALYSIS				REMARKS
96-209		Shoppers Imperial					IPH-Gasoline	BTCA	Silver Lead *	Other	
SAMPLERS: (Signature)											
NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.						
1	9/23			✓	W-1	1	X	X	X		Analyze floating product. Give him chromatogram. K0 9/24/93
2	-			✓	W-2	3	X	X	X		
3	-			✓	S-1	1	X	X	X		
4	-			✓	S-2	1	X	X	X		
5	-			✓	S-3	1	X	X	X		
6	-			✓	<del>S-4</del>						
7	-			✓	S-6	1	X	X	X		
9	-			✓	S-7	1	X	X	X		
10	-			✓	S-8	1	X	X	X		* Want Total Lead K0 9/24/93
11											
12											
13											
14											
15											

  

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
<i>[Signature]</i>					
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)	Date/Time	NAME	ADDRESS
		<i>[Signature]</i>	9/24/93 0925		
				PHONE NO	

CHECK IF RUSH  
48 hr  
rush

SEP 28 '93 15:13 CURTIS & TOMPKINS BERKELEY  
CURTIS & TOMPKINS  
SEP 28 '93 P. 16  
04:12PM