Shell Oil Products US

R0493

April 15, 2003

Mr. Bennett K. Horenstein
East Bay Municipal Utilities District
Environmental Services Division
PO Box 24055
Oakland, California 94623-1055

Subject: **Shell-branded Service Station**
610 Market Street
Oakland, California
First Quarter 2003 Self-Monitoring Report
EBMUD Discharge Permit No. 5050671-1

Alameda County
APR 17 2003
Environmental Health

Dear Mr. Horenstein:

During the current reporting period, the groundwater treatment and extraction system at the subject site operated in compliance with the conditions specified in the above-referenced East Bay Municipal Utilities District Wastewater Discharge Permit.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer
Shell Oil Products US

P.O. Box 7869 Burbank, CA 91510-7869 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

April 15, 2003

Mr. Bennett K. Horenstein
Source Control Manager
c/o Mr. Florencio C. Gonzalez
East Bay Municipal Utilities District
Environmental Services Division
PO Box 24055
Oakland, California 94623-1055

Re: **First Quarter 2003 Self-Monitoring Report**
Shell-branded Service Station
610 Market Street
Oakland, California
EBMUD Discharge Permit # 5050671-1
Cambria Project # 245-0594-004

Dear Mr. Horenstein:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria), is providing this *First Quarter 2003 Self-Monitoring Report* for the groundwater extraction (GWE) system operating at the subject site, under the authorization of East Bay Municipal Utility District (EBMUD) wastewater discharge permit # 5050671-1.

SITE BACKGROUND

The site is a Shell-branded service station located on Market Street, between Sixth and Seventh Streets, in Oakland, California (Figure 1). Currently, the site consists of a kiosk, three underground storage tanks, four dispenser islands and a drive-through car wash facility (Figure 2). The area surrounding the site is primarily of commercial use.

GWE SYSTEM MONITORING SUMMARY

GWE System Design: Groundwater is extracted from five 4-inch diameter GWE wells. Two particle filters in parallel, and then a series of three 2,000-pound aqueous-phase carbon vessels treat the combined groundwater stream. Treated groundwater is then discharged to the sanitary sewer.

Cambria Environmental Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

GWE System Startup: The GWE system was started on February 18, 2003.

GWE System Sampling: Samples are collected prior to the first carbon vessel (influent), between the first and second carbon vessels (midfluent1), between the second and third carbon vessels (midfluent2), and after the third carbon vessel (effluent). Pretreatment system startup samples were collected on February 18, 2003. Samples were collected one week after startup on March 25, 2003 and three weeks after startup on March 11 and 13, 2003. Analytical results from startup samples were in compliance with the waterwater discharge limitations. Cambria collected samples for routine monitoring on March 25, 2003. The results of these samples are pending. Table 1 summarizes system analytical data for the primary constituents of concern. Certified laboratory analytical reports are provided as Attachment A.

GWE System Flow Monitoring: As of March 25, 2003, the GWE system treated and discharged approximately 92,740 gallons of groundwater. The average system flow rate during operation was approximately 3.98 gallons per minute. Table 2 summarizes extraction/discharge totals and contaminant mass removal.

GWE System Operation: Cambria has established a routine operation and maintenance schedule for this system. Site visits will be conducted twice per month to collect operational and monitoring data. Permit compliance samples will be collected monthly as specified by the permit. Cambria may collect additional system samples if deemed appropriate. During the first quarter 2003, the GWE system operated as expected, and no operational changes to the system were made.

CLOSING

We trust this submittal meets your requirements. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or require additional information.

Sincerely,
Cambria Environmental Technology, Inc.

Jacquelyn Jones
Project Manager

Matthew W. Derby, P.E.
Senior Project Engineer

REGISTERED PROFESSIONAL ENGINEER
DIANE M. LUNDQUIST
No. C46725
CIVIL
STATE OF CALIFORNIA

Figures: 1 - Vicinity/Area Well Survey Map
2 - Site Plan

Tables: 1 - Groundwater Extraction - System Analytical Data
2 - Groundwater Extraction – Operation and Mass Removal Data

Attachment: A - Certified Laboratory Analytical Reports

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869
Mr. Barney Chan, Alameda Health Care Services Agency, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
Virgina R. Rawson, Tr., 1860 Tice Creek Drive #1353, Walnut Creek, CA, 94595

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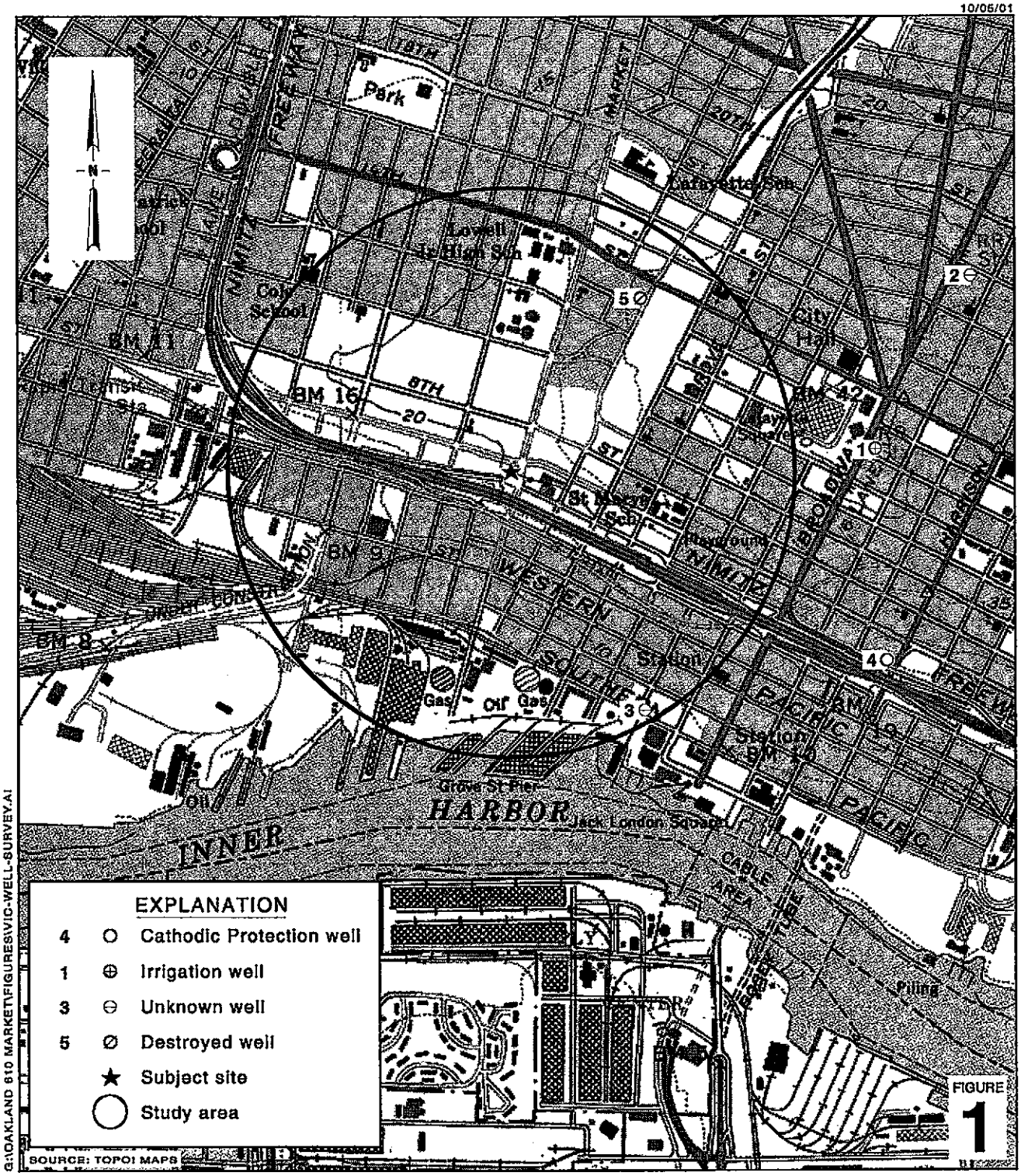
10/05/01



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0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Shell-branded Service Station
610 Market Street
Oakland, California
Incident #98995750

CAMBRIA

Vicinity / Area Well Survey Map

1/2 Mile Radius

EXPLANATION

- MW-1 — Monitoring well location
- MW-6 — Extraction well location
- SB-A — Geoprobe boring (3/31/98)
- SB-D — Soil boring location (4/17/02)
- T1 — Tank backfill well (dry)
- Storm drain line (SD)
- Sanitary sewer line (SS)
- Water main (W)
- Gas line (G)
- Electrical line (E)
- Flow direction
- F.L. = 5.6 — Flowline elevation, in feet above mean sea level (msl)
- MH — Manhole
- Groundwater extraction system piping

Site Plan

CAMBRIA

Shell-branded Service Station
610 Market Street
Oakland, California
Incident #98995750

FIGURE
2

Table 1: Groundwater Extraction - System Analytical Data
Shell-branded Service Station, Incident #98995750, 610 Market St, Oakland, California

Sample Date (mm/dd/yy)	Influent			Midfluent 1			Midfluent 2			Effluent		
	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc (ppb)	TPHg Conc. (ppb)	Benzene Conc (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc (ppb)
2/18/2003	<20,000	270	93,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
2/25/2003	<20,000	<200	74,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
3/11/2003	<10,000	<100	47,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether
Conc. = Concentration
ppb = parts per billion, equivalent to µg/l
TPHg, benzene, and MTBE analyzed by EPA Method 8260B

Table 2: **Groundwater Extraction - Operation and Mass Removal Data**
Shell-branded Service Station, Incident #98995750, 610 Market Street, Oakland, California

						TPHg			Benzene			MTBE		
Site Visit (mm/dd/yy)	Hour Meter (hours	Flow Meter Reading (gal)	Period Volume (gal)	Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	Benzene Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	MTBE Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)
2/18/2003	0.0	100	0	0.00	0	<20,000	0.000	0.000	270	0.000	0.000	93,000	0.000	0.000
2/18/2003	3.5	1,024	924	4.40	924		0.077	0.077		0.002	0.002		0.717	0.717
2/25/2003	140.2	30,312	29,288	3.57	30,212	<20,000	2.444	2.52	<200	0.024	0.027	74,000	18.1	18.8
3/11/2003	475.8	84,666	54,354	2.70	84,566	<10,000	4.535	7.06	<100	0.045	0.072	47,000	21.3	40.1
3/13/2003	524.0	92,030	7,364	2.55	91,930		0.307	7.36		0.003	0.075		2.89	43.0
		Total Extracted Volume=			**91,930**	**Total Pounds Removed:**		**7.36**	**Total Pounds Removed:**		**0.075**	**Total Pounds Removed:**		**43.0**
		Average Operational Flow Rate=		**3.30**		**Total Gallons Removed:**		**1.21**	**Total Gallons Removed:**		**0.010**	**Total Gallons Removed:**		**6.96**

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether
Conc. = Concentration
ppb = Parts per billion, equivalent to µg/L
µg/L = Micrograms per liter
L = Liter gal = Gallon g = Gram
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x ($g/10^6 \mu g$) x (pound/453.6g) x (3.785 L/gal)
When constituents are not detected, the concentration is assumed to be equal to half the detection limit in subsequent calculations.
Volume removal data based on the formula: mass (pounds) x $(density)^{-1}$ (cc/g) x 453.6 (g/pound) x (L/1000 cc) * (gal/3.785 L)
Density inputs: TPHg = 0.73 g/cc, TPHd = 0.87 g/cc, MTBE = 0.74 g/cc
TPHg, BTEX, and MTBE analyzed by EPA Method 8260B

ATTACHMENT A

Certified Laboratory Analytical Reports

KIFF ANALYTICAL LLC

Report Number : 31595
Date : 2/23/2003

Kevin Dolan
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

Subject : 4 Water Samples
Project Name : 610 Market Street, Oakland
Project Number :
P.O. Number : 98995750

Dear Mr. Dolan,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 31595

Date : 2/23/2003

Sample : **INF**

Project Name : **610 Market Street, Oakland**

Project Number :

Date Analyzed : 2/21/2003 Lab Number : 31595-01

Matrix : Water Sample Date :2/18/2003 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	**93000**	200	ug/L
TPH as Gasoline	< 20000	20000	ug/L
Dichlorodifluoromethane	< 200	200	ug/L
Chloromethane	< 200	200	ug/L
Vinyl Chloride	< 200	200	ug/L
Bromomethane	< 5000	5000	ug/L
Chloroethane	< 200	200	ug/L
Trichlorofluoromethane	< 200	200	ug/L
1,1-Dichloroethene	< 200	200	ug/L
Methylene Chloride	< 2000	2000	ug/L
trans-1,2-Dichloroethene	< 200	200	ug/L
1,1-Dichloroethane	< 200	200	ug/L
2,2-Dichloropropane	< 200	200	ug/L
cis-1,2-Dichloroethene	< 200	200	ug/L
Chloroform	< 200	200	ug/L
Bromochloromethane	< 200	200	ug/L
1,1,1-Trichloroethane	< 200	200	ug/L
1,1-Dichloropropene	< 200	200	ug/L
1,2-Dichloroethane	< 200	200	ug/L
Carbon Tetrachloride	< 200	200	ug/L
Benzene	**270**	200	ug/L
Trichloroethene	< 200	200	ug/L
1,2-Dichloropropane	< 200	200	ug/L
Bromodichloromethane	< 200	200	ug/L
Dibromomethane	< 200	200	ug/L
cis-1,3-Dichloropropene	< 200	200	ug/L
Toluene	< 200	200	ug/L
trans-1,3-Dichloropropene	< 200	200	ug/L
1,1,2-Trichloroethane	< 200	200	ug/L
1,3-Dichloropropane	< 200	200	ug/L
Tetrachloroethene	< 200	200	ug/L
Dibromochloromethane	< 200	200	ug/L
1,2-Dibromoethane	< 200	200	ug/L
Chlorobenzene	< 200	200	ug/L
1,1,1,2-Tetrachloroethane	< 200	200	ug/L
Ethylbenzene	< 200	200	ug/L
P,M-Xylene	**310**	250	ug/L
O-Xylene	< 200	200	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 200	200	ug/L
Isopropyl benzene	< 200	200	ug/L
Bromoform	< 200	200	ug/L
1,1,2,2-Tetrachloroethane	< 200	200	ug/L
1,2,3-Trichloropropane	< 200	200	ug/L
n-Propylbenzene	< 200	200	ug/L
Bromobenzene	< 200	200	ug/L
1,3,5-Trimethylbenzene	< 200	200	ug/L
2+4-Chlorotoluene	< 250	250	ug/L
tert-Butylbenzene	< 200	200	ug/L
1,2,4-Trimethylbenzene	< 200	200	ug/L
sec-Butylbenzene	< 200	200	ug/L
p-Isopropyltoluene	< 200	200	ug/L
1,3-Dichlorobenzene	< 200	200	ug/L
1,4-Dichlorobenzene	< 200	200	ug/L
n-Butylbenzene	< 200	200	ug/L
1,2-Dichlorobenzene	< 200	200	ug/L
1,2-Dibromo-3-chloropropane	< 200	200	ug/L
1,2,4-Trichlorobenzene	< 200	200	ug/L
Hexachlorobutadiene	< 200	200	ug/L
Naphthalene	< 200	200	ug/L
1,2,3-Trichlorobenzene	< 200	200	ug/L
Dibromofluoromethane (Surr)	96.6		% Recovery
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery
Toluene-d8 (Surr)	105		% Recovery
4-Bromofluorobenzene (Surr)	96.2		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31595

Date : 2/23/2003

Sample : **MID-1**

Project Name : **610 Market Street, Oakland**

Project Number :

Date Analyzed : 2/20/2003 Lab Number : 31595-02

Matrix : Water Sample Date :2/18/2003 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Toluene - d8 (Surr)	104		% Recovery
4-Bromofluorobenzene (Surr)	95.2		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31595
Date : 2/23/2003

Sample : **MID-2**

Project Name : **610 Market Street, Oakland**

Project Number :

Date Analyzed : 2/20/2003 Lab Number : 31595-03

Matrix : Water Sample Date :2/18/2003 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Toluene - d8 (Surr)	94.6		% Recovery
4-Bromofluorobenzene (Surr)	97.4		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31595

Date : 2/23/2003

Sample : **EFF**

Project Name : **610 Market Street, Oakland**

Project Number :

Date Analyzed : 2/21/2003 Lab Number : 31595-04

Matrix : Water Sample Date :2/18/2003 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 2.0	2.0	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 2.0	2.0	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
Dibromofluoromethane (Surr)	97.1		% Recovery
1,2-Dichloroethane-d4 (Surr)	96.6		% Recovery
Toluene-d8 (Surr)	105		% Recovery
4-Bromofluorobenzene (Surr)	93.7		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31595

Date : 2/23/2003

QC Report : Method Blank Data

Project Name : **610 Market Street, Oakland**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/20/2003
Toluene - d8 (Surr)	104		%	EPA 8260B	2/20/2003
4-Bromofluorobenzene (Surr)	96.4		%	EPA 8260B	2/20/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/20/2003
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Bromomethane	< 20	20	ug/L	EPA 8260B	2/20/2003
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	2/20/2003
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	2/20/2003
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	2/20/2003
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	2/20/2003
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Styrene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	2/20/2003
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/20/2003
Dibromofluoromethane (Surr)	96.0		%	EPA 8260B	2/20/2003

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31595

Date : 2/23/2003

QC Report : Method Blank Data

Project Name : **610 Market Street, Oakland**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	2/20/2003
Toluene - d8 (Surr)	104		%	EPA 8260B	2/20/2003
4-Bromofluorobenzene (Surr)	96.4		%	EPA 8260B	2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31595

Date : 2/23/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **610 Market Street, Oakland**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	31595-02	<0.50	39.7	39.6	38.7	40.1	ug/L	EPA 8260B	2/21/03	97.6	101	3.77	70-130	25
Toluene	31595-02	<0.50	39.7	39.6	38.8	39.9	ug/L	EPA 8260B	2/21/03	97.8	101	3.07	70-130	25
Tert-Butanol	31595-02	<5.0	198	198	186	188	ug/L	EPA 8260B	2/21/03	93.8	94.9	1.19	70-130	25
Methyl-t-Butyl Ether	31595-02	<0.50	39.7	39.6	35.1	34.3	ug/L	EPA 8260B	2/21/03	88.6	86.6	2.23	70-130	25
1,1-Dichloroethane	31595-02	<0.50	39.7	39.6	36.6	37.6	ug/L	EPA 8260B	2/21/03	92.4	94.8	2.67	70-130	25
1,2-Dichloroethane	31595-02	<0.50	39.7	39.6	37.9	37.8	ug/L	EPA 8260B	2/21/03	95.6	95.5	0.157	70-130	25
Chlorobenzene	31595-02	<0.50	39.7	39.6	41.4	42.6	ug/L	EPA 8260B	2/21/03	104	107	2.83	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31595

QC Report : Laboratory Control Sample (LCS)

Date : 2/23/2003

Project Name : **610 Market Street, Oakland**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	2/20/03	98.1	70-130
Toluene	40.0	ug/L	EPA 8260B	2/20/03	97.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/20/03	93.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/20/03	85.8	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	2/20/03	93.8	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	2/20/03	93.7	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	2/20/03	104	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Calscience
Environmental
Laboratories, Inc.

February 24, 2003

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 03-02-1129**
Client Reference: 610 Market Street, Oakland

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/20/2003 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical	Date Sampled:	02/18/03
2795 2nd Street, Suite 300	Date Received:	02/20/03
Davis, CA 95616-6593	Date Analyzed:	02/21/03
	Work Order No.:	03-02-1129
Attn: Joel Kiff	Method:	EPA 1664A SGT
RE: Tesoro #67118	Page 1 of 1	

All concentrations are reported in mg/L (ppm).

Sample Number	Hexane Extractable Material Concentration	Reporting Limit
EFF	ND	1.0
Method Blank	ND	1.0

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/20/03
Work Order No: 03-02-1129
Preparation: Total Digestion
Method: EPA 6010B / EPA 7470A

Project: 610 Market Street, Oakland

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
INF	**03-02-1129-1**	**02/18/03**	**Aqueous**	**02/20/03**	**02/21/03**	**030220L06**

Comment(s): Mercury was analyzed on 2/21/2003 1:23:21 PM with batch 030220L06

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Mercury	ND	0.00050	1		mg/L
Chromium (Total)	0.0234	0.0050	1		mg/L	Nickel	0.0252	0.0050	1		mg/L
Copper	0.0112	0.0050	1		mg/L	Silver	ND	0.00500	1		mg/L
Lead	ND	0.0100	1		mg/L	Zinc	0.108	0.010	1		mg/L

EFF	**03-02-1129-2**	**02/18/03**	**Aqueous**	**02/20/03**	**02/21/03**	**030220L06**

Comment(s): Mercury was analyzed on 2/21/2003 1:26:21 PM with batch 030220L06

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Mercury	ND	0.00050	1		mg/L
Chromium (Total)	ND	0.00500	1		mg/L	Nickel	ND	0.00500	1		mg/L
Copper	0.0121	0.0050	1		mg/L	Silver	ND	0.00500	1		mg/L
Lead	ND	0.0100	1		mg/L	Zinc	0.0175	0.0100	1		mg/L

Method Blank	**099-04-008-1,056**	**N/A**	**Aqueous**	**02/20/03**	**02/20/03**	**030220L06**

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.00050	1		mg/L

Method Blank	**097-01-003-2,841**	**N/A**	**Aqueous**	**02/20/03**	**02/21/03**	**030220L06**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Nickel	ND	0.00500	1		mg/L
Chromium (Total)	ND	0.00500	1		mg/L	Silver	ND	0.00500	1		mg/L
Copper	ND	0.00500	1		mg/L	Zinc	ND	0.0100	1		mg/L
Lead	ND	0.0100	1		mg/L						

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/20/03
Work Order No: 03-02-1129
Preparation: N/A
Method: EPA 335.2

Project: 610 Market Street, Oakland

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
INF	**03-02-1129-1**	**02/18/03**	**Aqueous**	**N/A**	**02/21/03**	**30221CNL1**

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EFF	**03-02-1129-2**	**02/18/03**	**Aqueous**	**N/A**	**02/21/03**	**30221CNL1**

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-05-061-1,222**	**N/A**	**Aqueous**	**N/A**	**02/21/03**	**30221CNL1**

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Project: 610 Market Street, Oakland

Date Received: 02/20/03
Work Order No: 03-02-1129
Preparation: Total Digestion
Method: EPA 6010B

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EFF	Aqueous	ICP 3300	02/20/03	02/21/03	030220S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	109	108	80-120	1	0-20	
Chromium (Total)	106	105	80-120	1	0-20	
Copper	109	107	80-120	1	0-20	
Lead	109	107	80-120	1	0-20	
Nickel	111	110	80-120	1	0-20	
Silver	108	106	80-120	1	0-20	
Zinc	113	112	80-120	1	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Project: 610 Market Street, Oakland

Date Received: 02/20/03
Work Order No: 03-02-1129
Preparation: Total Digestion
Method: EPA 6010B

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-2,841	Aqueous	ICP 3300	02/20/03	02/21/03	030220L06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	109	109	80-120	0	0-20	
Chromium (Total)	105	105	80-120	0	0-20	
Copper	104	103	80-120	1	0-20	
Lead	108	108	80-120	0	0-20	
Nickel	110	110	80-120	0	0-20	
Silver	100	100	80-120	0	0-20	
Zinc	108	108	80-120	0	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Project: 610 Market Street, Oakland

Date Received: 02/20/03
Work Order No: 03-02-1129
Preparation: Total Digestion
Method: EPA 7470A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
03-02-1092-5	Aqueous	Mercury	02/20/03	02/20/03	030220S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	98	102	71-134	4	0-14	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Project: 610 Market Street, Oakland

Date Received: 02/20/03
Work Order No: 03-02-1129
Preparation: Total Digestion
Method: EPA 7470A

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-008-1,056	Aqueous	Mercury	02/20/03	030220-L06	030220L08

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury	0.0100	0.0100	100	90-122	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Project: 610 Market Street, Oakland

Date Received: 02/20/03
Work Order No: 03-02-1129
Preparation: N/A
Method: EPA 335.2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-061-1,222	Aqueous	UV 2	N/A	02/21/03	30221CNL1

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Total Cyanide	99	99	80-120	1	0-20	

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 1664A SGT

Kiff Analytical
Page 1 of 1

Work Order No.: 03-02-1129
Date Analyzed: 02/21/03

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits (%)	%RPD	Control Limits (%)
HEM	95	96	64 - 132	1	0 - 34

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-02-1129

Qualifier	Definition
ND	Not detected at indicated reporting limit.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-02-1129

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF DATE: 02/20/03

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

1.0 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: NC

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Applicable (N/A): _____

Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation			✓

Initial: NC

COMMENTS:

KIFF ANALYTICAL LLC
2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

1129

Lab No. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff
Company/Address: Kiff Analytical, LLC
Phone No.: FAX No.:
Project Number: P.O. No.: 31595
Project Name: 610 Market Street, Oakland
Project Address:

Geotracker COELT EDD REPORT? ___ YES _X_ NO
Sampling Company Log Code:
Global ID:
EDF Deliverable to (Email Address):
E-mail address: inbox@kiffanalytical.com

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Preservative: HCl	Preservative: HNO3	Preservative: ICE	Preservative: H2SO4	Preservative: NaOH	Matrix: WATER	Matrix: SOIL	Analysis Request: OGHC (EPA 1664-SGT)	Analysis Request: Metals (Cd, Cr, Cu, Pb, Ni, Ag, Zn) EPA 6010	Analysis Request: Mercury (EPA 7470A)	Analysis Request: Cyanide (EPA 335.2)	Date Due: February 24, 2003	For Lab Use Only
INF	2/18/2003	14:40		2				1	X		1	X			X	X	X		
EFF	2/18/2003	14:00		2	1			1	X	1	1	X		X	X	X	X	X	
																		X	

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:

Remarks: Incident No. 98995750 SAP# 135692
PLEASE RUN SAMPLES ACCORDING TO THIS REVISED DOCUMENT
Bill to:

1129

Kiff Analytical, LLC

FACSIMILE COVER LETTER

DATE: 2/20/03

TO: Steve Nowak

COMPANY: Cal Science Environmental

FAX NO: 714-894-7501

FROM: Michelle

Total number of pages to follow: 1 Original to Follow? (Yes) No

Comments:

Please remove both samples off hold and run per the following revised Chain of Custody.

Thanks,
Michelle

FAXED By: MMW
Date: 2/20/03

Analytical Services
2795 Second Street, Suite 300
Davis, California 95616
Phone 530.297.4800 Fax 530.297.4808

KIFF ANALYTICAL LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 1129 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff	Geotracker COELT EDD REPORT? ___ YES _X_ NO
Company/Address: Kiff Analytical, LLC	Sampling Company Log Code:
Phone No.:	FAX No.:
Global ID:	
Project Number:	P.O. No.: 31595
EDF Deliverable to (Email Address):	
Project Name: 610 Market Street, Oakland	E-mail address: inbox@kiffanalytical.com
Project Address:	

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Container:	Preservative: HCl	Preservative: HNO3	Preservative: ICE	Preservative: H2SO4	Preservative: NaOH	Matrix: WATER	Matrix: SOIL	Matrix:	Analysis Request: HOLD							Date Due: February 24, 2003	For Lab Use Only
INF	2/18/2003	14:40		2					1	X		1	X			X							X	
EFF	2/18/2003	14:00		2	1				1	X	1	1	X			X							X	

Relinquished by:	Date	Time	Received by:	Remarks: Incident No. 98995750 SAP# 135692
[signature]	02.19.03	1907		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 2/20/03	Time 1000	Received by Laboratory: [signature]	Bill to:

KIFF ANALYTICAL

2795 2nd Street, Suite 300

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

Shell Oil Products US Chain Of Custody Record

Equiva Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna 31595

INCIDENT NUMBER (S&E ONLY): 98995750

SAP or CRMT NUMBER (TS/CRMT): 113569 2

DATE: 2/18/03

PAGE: 1 of 1

SAMPLING COMPANY: Cambria Environmental Technology, Inc.	LOG CODE:	SITE ADDRESS (Street and City): 610 Market Street, Oakland	GLOBAL ID NO.:
ADDRESS: 5900 Hollis Street, Emeryville, CA 94608		EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.: / E-MAIL: / CONSULTANT PROJECT NO.:
PROJECT CONTACT (Hardcopy or PDF Report to): KEVIN DOLAN		SAMPLER NAME(S) (Print): ERIC ZICKLER	LAB USE ONLY
TELEPHONE: 510.420.0700	FAX: 510.420.3394	E-MAIL: KDOLAN@CAMBRIA-ENV.COM	

TURNAROUND TIME (BUSINESS DAYS): ☐ 10 DAYS ☐ 5 DAYS ☑ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX (EPA 8260B)	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	VOC's (8260B)	OGHC (EPA 1664-SGT)	Oxygenates (5) by (8260B)	Metals(Cd,Cr,Cu,Pb,Ni,Ag,Zn) EPA 601	Mercury (EPA 7470A)	Cyanide (EPA 335.2)	TEMPERATURE ON RECEIPT C°
	INF	2/18	14:40	H_2O	6	X	X		X	X			X	X	X	-01
	MID-1	2/18	14:30	H_2O	4	X	X		X							-02
	MID-2	2/18	14:15	H_2O	4	X	X		X							-03
	EFF	2/18	14:00	H_2O	7	X	X		X	X	X		X	X	X	-04

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	SECURE LOCATION	2/18/03	16:30
[signature]	[signature]	[signature]	[signature]
[signature]	[signature]	02 1903	1108

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&D Graphic (714) 898-9702

KIFF ANALYTICAL LLC

Report Number : 31704
Date : 2/28/03

Kevin Dolan
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

Subject : 4 Water Samples
Project Name : 610 Market Street, Oakland
Project Number : 245-0594
P.O. Number : 98995750

Dear Mr. Dolan,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 31704
Date : 2/28/03

Sample : **INF**

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Date Analyzed : 2/28/03

Lab Number : 31704-01

Matrix : Water

Sample Date :2/25/03

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	**74000**	200	ug/L
TPH as Gasoline	< 20000	20000	ug/L
Dichlorodifluoromethane	< 200	200	ug/L
Chloromethane	< 200	200	ug/L
Vinyl Chloride	< 200	200	ug/L
Bromomethane	< 5000	5000	ug/L
Chloroethane	< 200	200	ug/L
Trichlorofluoromethane	< 200	200	ug/L
1,1-Dichloroethene	< 200	200	ug/L
Methylene Chloride	< 2000	2000	ug/L
trans-1,2-Dichloroethene	< 200	200	ug/L
1,1-Dichloroethane	< 200	200	ug/L
2,2-Dichloropropane	< 200	200	ug/L
cis-1,2-Dichloroethene	< 200	200	ug/L
Chloroform	< 200	200	ug/L
Bromochloromethane	< 200	200	ug/L
1,1,1-Trichloroethane	< 200	200	ug/L
1,1-Dichloropropene	< 200	200	ug/L
1,2-Dichloroethane	< 200	200	ug/L
Carbon Tetrachloride	< 200	200	ug/L
Benzene	< 200	200	ug/L
Trichloroethene	< 200	200	ug/L
1,2-Dichloropropane	< 200	200	ug/L
Bromodichloromethane	< 200	200	ug/L
Dibromomethane	< 200	200	ug/L
cis-1,3-Dichloropropene	< 200	200	ug/L
Toluene	< 200	200	ug/L
trans-1,3-Dichloropropene	< 200	200	ug/L
1,1,2-Trichloroethane	< 200	200	ug/L
1,3-Dichloropropane	< 200	200	ug/L
Tetrachloroethene	< 200	200	ug/L
Dibromochloromethane	< 200	200	ug/L
1,2-Dibromoethane	< 200	200	ug/L
Chlorobenzene	< 200	200	ug/L
1,1,1,2-Tetrachloroethane	< 200	200	ug/L
Ethylbenzene	< 200	200	ug/L
P,M-Xylene	< 250	250	ug/L
O-Xylene	< 200	200	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 200	200	ug/L
Isopropyl benzene	< 200	200	ug/L
Bromoform	< 200	200	ug/L
1,1,2,2-Tetrachloroethane	< 200	200	ug/L
1,2,3-Trichloropropane	< 200	200	ug/L
n-Propylbenzene	< 200	200	ug/L
Bromobenzene	< 200	200	ug/L
1,3,5-Trimethylbenzene	< 200	200	ug/L
2+4-Chlorotoluene	< 250	250	ug/L
tert-Butylbenzene	< 200	200	ug/L
1,2,4-Trimethylbenzene	< 200	200	ug/L
sec-Butylbenzene	< 200	200	ug/L
p-Isopropyltoluene	< 200	200	ug/L
1,3-Dichlorobenzene	< 200	200	ug/L
1,4-Dichlorobenzene	< 200	200	ug/L
n-Butylbenzene	< 200	200	ug/L
1,2-Dichlorobenzene	< 200	200	ug/L
1,2-Dibromo-3-chloropropane	< 200	200	ug/L
1,2,4-Trichlorobenzene	< 200	200	ug/L
Hexachlorobutadiene	< 200	200	ug/L
Naphthalene	< 200	200	ug/L
1,2,3-Trichlorobenzene	< 200	200	ug/L
Dibromofluoromethane (Surr)	106		% Recovery
1,2-Dichloroethane-d4 (Surr)	102		% Recovery
Toluene-d8 (Surr)	95.5		% Recovery
4-Bromofluorobenzene (Surr)	95.7		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31704

Date : 2/28/03

Sample : **MID-1**

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Date Analyzed : 2/26/03

Lab Number : 31704-02

Matrix : Water

Sample Date :2/25/03

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Toluene - d8 (Surr)	94.4		% Recovery
4-Bromofluorobenzene (Surr)	105		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31704
Date : 2/28/03

Sample : **MID-2**

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Date Analyzed : 2/26/03 Lab Number : 31704-03

Matrix : Water Sample Date :2/25/03

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Toluene - d8 (Surr)	96.2		% Recovery
4-Bromofluorobenzene (Surr)	98.5		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31704

Date : 2/28/03

Sample : **EFF**

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Date Analyzed : 2/26/03

Lab Number : 31704-04

Matrix : Water

Sample Date :2/25/03

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 2.0	2.0	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 2.0	2.0	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
Dibromofluoromethane (Surr)	102		% Recovery
1,2-Dichloroethane-d4 (Surr)	102		% Recovery
Toluene-d8 (Surr)	95.8		% Recovery
4-Bromofluorobenzene (Surr)	96.2		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31704

Date : 2/28/03

QC Report : Method Blank Data

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/26/03
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Bromomethane	< 20	20	ug/L	EPA 8260B	2/26/03
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	2/26/03
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	2/26/03
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	2/26/03
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	2/26/03
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Styrene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	2/26/03
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Dibromofluoromethane (Surr)	101		%	EPA 8260B	2/26/03
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	2/26/03
Toluene - d8 (Surr)	96.5		%	EPA 8260B	2/26/03
4-Bromofluorobenzene (Surr)	96.9		%	EPA 8260B	2/26/03

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31704

Date : 2/28/03

QC Report : Method Blank Data

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/27/03
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Bromomethane	< 20	20	ug/L	EPA 8260B	2/27/03
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	2/27/03
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	2/27/03
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	2/27/03
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	2/27/03
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Styrene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	2/27/03
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	2/27/03
Dibromofluoromethane (Surr)	102		%	EPA 8260B	2/27/03
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	2/27/03
Toluene - d8 (Surr)	96.7		%	EPA 8260B	2/27/03
4-Bromofluorobenzene (Surr)	97.1		%	EPA 8260B	2/27/03

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31704

Date : 2/28/03

QC Report : Method Blank Data

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/26/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/26/03
Toluene - d8 (Surr)	93.8		%	EPA 8260B	2/26/03
4-Bromofluorobenzene (Surr)	106		%	EPA 8260B	2/26/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31704

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 2/28/03

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1-Dichloroethane	31667-11	<0.50	40.0	40.0	41.2	40.8	ug/L	EPA 8260B	2/26/03	103	102	0.927	70-130	25
Benzene	31667-11	<0.50	40.0	40.0	40.2	39.9	ug/L	EPA 8260B	2/26/03	100	99.7	0.774	70-130	25
1,2-Dichloroethane	31667-11	<0.50	40.0	40.0	41.2	40.6	ug/L	EPA 8260B	2/26/03	103	101	1.42	70-130	25
Toluene	31667-11	<0.50	40.0	40.0	38.3	37.8	ug/L	EPA 8260B	2/26/03	95.8	94.5	1.34	70-130	25
Chlorobenzene	31667-11	<0.50	40.0	40.0	41.5	41.4	ug/L	EPA 8260B	2/26/03	104	104	0.338	70-130	25
Tert-Butanol	31667-11	<5.0	200	200	199	199	ug/L	EPA 8260B	2/26/03	99.4	99.7	0.301	70-130	25
Methyl-t-Butyl Ether	31667-11	<0.50	40.0	40.0	36.5	36.6	ug/L	EPA 8260B	2/26/03	91.3	91.6	0.246	70-130	25
1,1-Dichloroethane	31737-05	<0.50	40.0	40.0	43.0	43.6	ug/L	EPA 8260B	2/27/03	108	109	1.41	70-130	25
Benzene	31737-05	<0.50	40.0	40.0	40.7	41.4	ug/L	EPA 8260B	2/27/03	102	103	1.51	70-130	25
1,2-Dichloroethane	31737-05	<0.50	40.0	40.0	43.3	44.4	ug/L	EPA 8260B	2/27/03	108	111	2.46	70-130	25
Toluene	31737-05	<0.50	40.0	40.0	38.8	39.0	ug/L	EPA 8260B	2/27/03	97.0	97.6	0.616	70-130	25
Chlorobenzene	31737-05	<0.50	40.0	40.0	42.1	42.3	ug/L	EPA 8260B	2/27/03	105	106	0.545	70-130	25
Tert-Butanol	31737-05	<5.0	200	200	206	215	ug/L	EPA 8260B	2/27/03	103	107	4.43	70-130	25
Methyl-t-Butyl Ether	31737-05	<0.50	40.0	40.0	40.0	41.4	ug/L	EPA 8260B	2/27/03	100	104	3.41	70-130	25
Benzene	31704-02	<0.50	40.0	40.0	36.4	35.7	ug/L	EPA 8260B	2/26/03	90.9	89.2	1.86	70-130	25
Toluene	31704-02	<0.50	40.0	40.0	35.2	34.6	ug/L	EPA 8260B	2/26/03	88.0	86.5	1.75	70-130	25
Tert-Butanol	31704-02	<5.0	200	200	188	187	ug/L	EPA 8260B	2/26/03	94.2	93.5	0.708	70-130	25
Methyl-t-Butyl Ether	31704-02	<0.50	40.0	40.0	36.5	35.7	ug/L	EPA 8260B	2/26/03	91.3	89.2	2.33	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31704

QC Report : Laboratory Control Sample (LCS)

Date : 2/28/03

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	2/26/03	99.2	70-130
Benzene	40.0	ug/L	EPA 8260B	2/26/03	99.8	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	2/26/03	101	70-130
Toluene	40.0	ug/L	EPA 8260B	2/26/03	98.8	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	2/26/03	99.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/26/03	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/26/03	93.0	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	2/27/03	95.1	70-130
Benzene	40.0	ug/L	EPA 8260B	2/27/03	95.0	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	2/27/03	103	70-130
Toluene	40.0	ug/L	EPA 8260B	2/27/03	95.8	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	2/27/03	97.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/27/03	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/27/03	89.9	70-130
Benzene	40.0	ug/L	EPA 8260B	2/26/03	95.8	70-130
Toluene	40.0	ug/L	EPA 8260B	2/26/03	92.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/26/03	97.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/26/03	93.0	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Calscience Environmental Laboratories, Inc.

March 04, 2003

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.:** **03-02-1547**
Client Reference: **610 Market Street, Oakland**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/27/03 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/27/03
Work Order No: 03-02-1547
Preparation: Total Digestion
Method: EPA 6010B / EPA 7470A

Project: 610 Market Street, Oakland

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
INF	03-02-1547-1	02/25/03	Aqueous	02/27/03	02/28/03	030227L05

Comment(s): Mercury was analyzed on 2/28/03 12:36:12 PM with batch 030227L04

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Mercury	ND	0.00050	1		mg/L
Chromium (Total)	ND	0.00500	1		mg/L	Nickel	0.0124	0.0050	1		mg/L
Copper	ND	0.00500	1		mg/L	Silver	ND	0.00500	1		mg/L
Lead	ND	0.0100	1		mg/L	Zinc	0.0280	0.0100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EFF	03-02-1547-2	02/25/03	Aqueous	02/27/03	02/28/03	030227L05

Comment(s): Mercury was analyzed on 2/28/03 12:47:14 PM with batch 030227L04

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Mercury	ND	0.00050	1		mg/L
Chromium (Total)	ND	0.00500	1		mg/L	Nickel	ND	0.00500	1		mg/L
Copper	ND	0.00500	1		mg/L	Silver	ND	0.00500	1		mg/L
Lead	ND	0.0100	1		mg/L	Zinc	0.0415	0.0100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-04-008-1,071	N/A	Aqueous	02/27/03	02/28/03	030227L04

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.00050	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-003-2,857	N/A	Aqueous	02/27/03	02/27/03	030227L03

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Nickel	ND	0.00500	1		mg/L
Chromium (Total)	ND	0.00500	1		mg/L	Silver	ND	0.00500	1		mg/L
Copper	ND	0.00500	1		mg/L	Zinc	ND	0.0100	1		mg/L
Lead	ND	0.0100	1		mg/L						

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/27/03
Work Order No: 03-02-1547
Preparation: N/A
Method: EPA 335.2

Project: 610 Market Street, Oakland

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
INF	03-02-1547-1	02/25/03	Aqueous	N/A	03/03/03	30303CNL1

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EFF	03-02-1547-2	02/25/03	Aqueous	N/A	03/03/03	30303CNL1

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-05-051-1,226	N/A	Aqueous	N/A	03/03/03	30303CNL1

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/27/03
Work Order No: 03-02-1547
Preparation: N/A
Method: EPA 1664A

Project: 610 Market Street, Oakland

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EFF	03-02-1547-2	02/25/03	Aqueous	N/A	02/28/03	30228HEM1.2

Parameter	Result	RL	DF	Qual	Units
Hexane Extractable Material-SGT	ND	1.0	1		mg/L

Method Blank	099-05-121-1,029	N/A	Aqueous	N/A	02/28/03	30228HEM1.2

Parameter	Result	RL	DF	Qual	Units
Hexane Extractable Material-SGT	ND	1.0	1		mg/L

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/27/03
Work Order No: 03-02-1547
Preparation: Total Digestion
Method: EPA 6010B

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
03-02-1517-3	Aqueous	ICP 3300	02/27/03	02/27/03	030227S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	100	100	80-120	0	0-20	
Chromium (Total)	106	111	80-120	4	0-20	
Copper	106	109	80-120	2	0-20	
Lead	97	98	80-120	0	0-20	
Nickel	104	106	80-120	1	0-20	
Silver	100	100	80-120	0	0-20	
Zinc	113	119	80-120	3	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/27/03
Work Order No: 03-02-1547
Preparation: Total Digestion
Method: EPA 6010B

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-2,857	Aqueous	ICP 3300	02/27/03	02/27/03	030227L05

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	97	97	80-120	0	0-20	
Chromium (Total)	95	95	80-120	0	0-20	
Copper	92	93	80-120	1	0-20	
Lead	94	97	80-120	3	0-20	
Nickel	97	97	80-120	0	0-20	
Silver	92	92	80-120	0	0-20	
Zinc	97	95	80-120	2	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/27/03
Work Order No: 03-02-1547
Preparation: Total Digestion
Method: EPA 7470A

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
INF	Aqueous	Mercury	02/27/03	02/28/03	030227S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	102	100	71-134	1	0-14	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/27/03
Work Order No: 03-02-1547
Preparation: Total Digestion
Method: EPA 7470A

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-008-1,071	Aqueous	Mercury	02/28/03	030227-L04	030227L04

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury	0.0100	0.0104	104	90-122	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/27/03
Work Order No: 03-02-1547
Preparation: N/A
Method: EPA 335.2

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-081-1,226	Aqueous	UV 2	N/A	03/03/03	30303CNL1

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Total Cyanide	92	92	80-120	0	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 02/27/03
Work Order No: 03-02-1547
Preparation: N/A
Method: EPA 1664A

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-02-121-1,029	Aqueous	NA	N/A	02/28/03	30228HEM2

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifier
Hexane Extractable Material-SGT	95	96	78-114	1	0-18	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-02-1547

Qualifier	Definition
ND	Not detected at indicated reporting limit.

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-02-1547

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff **DATE:** 2/27/03

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

3 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: JH

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact): _____ Not Applicable (N/A): _____

Initial: JH

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation			

Initial: JH

COMMENTS:

KIFF ANALYTICAL LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 1547

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff	Geotracker COELT EDD REPORT? ___ YES X NO
Company/Address: Kiff Analytical, LLC	Sampling Company Log Code:
Phone No.:	FAX No.:
Global ID:	
Project Number: 245-0594	P.O. No.: 31704
EDF Deliverable to (Email Address):	
Project Name: 610 Market Street, Oakland	E-mail address: inbox@kiffanalytical.com
Project Address:	

	Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Preservative: HNO3	Preservative: ICE	Preservative: NaOH	Preservative: H2SO4	Matrix: WATER	Matrix: SOIL	Analysis Request: Metals (Cd, Cr, Cu, Pb, Ni, Ag, Zn) EPA 6010	Analysis Request: Mercury (EPA 7470A)	Analysis Request: Cyanide (EPA 335.2)	Analysis Request: OGHC (EPA 1664-SGT)	Date Due: March 4, 2003	For Lab Use Only
1	INF	2/25/2003	1:50		2			1	X	1		X		X	X	X		X	
2	EFF	2/25/2003	1:20		2	1		1	X	1	1	X		X	X	X	X	X	

	Date	Time	Received by:
Relinquished by: Michelle Woolen Kiff Analytical	022603	1415	CA OVERNIGHT
Relinquished by:	Date	Time	Received by:
Relinquished by: CA OVERNIGHT	Date 2/27	Time MON	Received by Laboratory:

Remarks: Incident# 98995750

Bill to:

KIFF ANALYTICAL

2795 2nd Street, Suite 300

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

Shell Oil Products US Chain Of Custody Record

Equiva Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna

31704

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 5 0

SAP or CRMT NUMBER (TS/CRMT): 1 3 5 6 9 2

DATE: 2/25/3

PAGE: 1 of 1

SAMPLING COMPANY: Cambria Environmental Technology, Inc.	LOG CODE:	SITE ADDRESS (Street and City): 610 Market Street, Oakland	GLOBAL ID NO.:
ADDRESS: 5900 Hollis Street, Emeryville, CA 94608		EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.: / E-MAIL: / CONSULTANT PROJECT NO.: 245-0594
PROJECT CONTACT (Hardcopy or PDF Report to): Kevin Dolan		SAMPLER NAME(S) (Print): Paul Rasmussen	LAB USE ONLY
TELEPHONE: 510.420.0700	FAX: 510.420.3394	E-MAIL: kdolan@cambria-env.com	

TURNAROUND TIME (BUSINESS DAYS): ☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

cc: DanEscure@dlescure@Cambria-env.com

flow meter= 0030100

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX (EPA 8260B)	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	VOC's (8260B)	OGHC (EPA 1664-SGT)	Oxygenates (5) by (8260B)	Metals(Cd,Cr,Cu,Pb,Ni,Ag,Zn) EPA 6010	Mercury (EPA 7470A)	Cyanide (EPA 335.2)	TEMPERATURE ON RECEIPT C°
	INF	2/25/3	1:50	H2O	7	X	X		X	X			X	X	X	-01
	MID-1	2/25/3	1:40	H2O	5	X	X		X							-02
	MID-2	2/25/3	1:30	H2O	5	X	X		X							-03
	EFF	2/25/3	1:20	H2O	8	X	X		X	X	X		X	X	X	-04

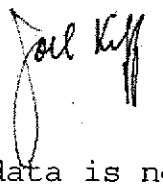
FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature) SECURE LOCATION	Date: 2/25/03	Time: 1400
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/25/03	Time: 19:10
Relinquished by: (Signature)	Received by: (Signature) Kiff Analytical	Date: 022503	Time: 19:10

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

D&Q Graphic (714) 898-9702



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@PJL SET ECONOMODE=OFF
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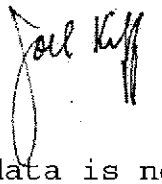

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@PJL SET RESOLUTION=600
@PJL SET EDGETOEDGE=NO
@PJL ENTER LANGUAGE=PCL

KIFF ANALYTICAL LLC

Report Number : 32090
Date : 03/27/2003

Kevin Dolan
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

Subject : 4 Water Samples
Project Name : 610 Market Street, Oakland
Project Number : 245-0594
P.O. Number : 98995750

Dear Mr. Dolan,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 32090
Date : 03/27/2003

Subject : 4 Water Samples
Project Name : 610 Market Street, Oakland
Project Number : 245-0594
P.O. Number : 98995750

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample INF for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 32090
Date : 03/27/2003

Sample : **INF**
Project Name : **610 Market Street, Oakland**
Project Number : **245-0594**
Matrix : Water Sample Date :03/11/2003
Date Analyzed : 03/13/2003 Lab Number : 32090-01
Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	**47000**	100	ug/L
TPH as Gasoline	< 10000	10000	ug/L
Dichlorodifluoromethane	< 100	100	ug/L
Chloromethane	< 100	100	ug/L
Vinyl Chloride	< 100	100	ug/L
Bromomethane	< 5000	5000	ug/L
Chloroethane	< 100	100	ug/L
Trichlorofluoromethane	< 100	100	ug/L
1,1-Dichloroethene	< 100	100	ug/L
Methylene Chloride	< 1000	1000	ug/L
trans-1,2-Dichloroethene	< 100	100	ug/L
1,1-Dichloroethane	< 100	100	ug/L
2,2-Dichloropropane	< 100	100	ug/L
cis-1,2-Dichloroethene	< 100	100	ug/L
Chloroform	< 100	100	ug/L
Bromochloromethane	< 100	100	ug/L
1,1,1-Trichloroethane	< 100	100	ug/L
1,1-Dichloropropene	< 100	100	ug/L
1,2-Dichloroethane	< 100	100	ug/L
Carbon Tetrachloride	< 100	100	ug/L
Benzene	< 100	100	ug/L
Trichloroethene	< 100	100	ug/L
1,2-Dichloropropane	< 100	100	ug/L
Bromodichloromethane	< 100	100	ug/L
Dibromomethane	< 100	100	ug/L
cis-1,3-Dichloropropene	< 100	100	ug/L
Toluene	< 100	100	ug/L
trans-1,3-Dichloropropene	< 100	100	ug/L
1,1,2-Trichloroethane	< 100	100	ug/L
1,3-Dichloropropane	< 100	100	ug/L
Tetrachloroethene	< 100	100	ug/L
Dibromochloromethane	< 100	100	ug/L
1,2-Dibromoethane	< 100	100	ug/L
Chlorobenzene	< 100	100	ug/L
1,1,1,2-Tetrachloroethane	< 100	100	ug/L
Ethylbenzene	< 100	100	ug/L
P,M-Xylene	< 200	200	ug/L
O-Xylene	< 100	100	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 100	100	ug/L
Isopropyl benzene	< 100	100	ug/L
Bromoform	< 100	100	ug/L
1,1,2,2-Tetrachloroethane	< 100	100	ug/L
1,2,3-Trichloropropane	< 100	100	ug/L
n-Propylbenzene	< 100	100	ug/L
Bromobenzene	< 100	100	ug/L
1,3,5-Trimethylbenzene	< 100	100	ug/L
2+4-Chlorotoluene	< 200	200	ug/L
tert-Butylbenzene	< 100	100	ug/L
1,2,4-Trimethylbenzene	< 100	100	ug/L
sec-Butylbenzene	< 100	100	ug/L
p-Isopropyltoluene	< 100	100	ug/L
1,3-Dichlorobenzene	< 100	100	ug/L
1,4-Dichlorobenzene	< 100	100	ug/L
n-Butylbenzene	< 100	100	ug/L
1,2-Dichlorobenzene	< 100	100	ug/L
1,2-Dibromo-3-chloropropane	< 100	100	ug/L
1,2,4-Trichlorobenzene	< 100	100	ug/L
Hexachlorobutadiene	< 100	100	ug/L
Naphthalene	< 100	100	ug/L
1,2,3-Trichlorobenzene	< 100	100	ug/L
Dibromofluoromethane (Surr)	109		% Recovery
1,2-Dichloroethane-d4 (Surr)	108		% Recovery
Toluene-d8 (Surr)	100		% Recovery
4-Bromofluorobenzene (Surr)	102		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 32090
Date : 03/27/2003

Sample : **MID-1**

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Date Analyzed : 03/12/2003 Lab Number : 32090-02

Matrix : Water Sample Date :03/11/2003 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Toluene - d8 (Surr)	92.8		% Recovery
4-Bromofluorobenzene (Surr)	91.0		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 32090
Date : 03/27/2003

Sample : **MID-2**

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Date Analyzed : 03/12/2003 Lab Number : 32090-03

Matrix : Water Sample Date :03/11/2003 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Benzene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
Total Xylenes	< 0.50	0.50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Toluene - d8 (Surr)	96.1		% Recovery
4-Bromofluorobenzene (Surr)	105		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 32090

Date : 03/27/2003

Sample : **EFF**

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Date Analyzed : 03/12/2003

Lab Number : 32090-04

Matrix : Water

Sample Date :03/11/2003

Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 2.0	2.0	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 2.0	2.0	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
Dibromofluoromethane (Surr)	101		% Recovery
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery
Toluene-d8 (Surr)	93.1		% Recovery
4-Bromofluorobenzene (Surr)	91.2		% Recovery

1) MRL = Method reporting limit
tr = Trace detected below reporting limit

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32090

Date : 03/27/2003

QC Report : Method Blank Data

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/15/2003
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Bromomethane	< 20	20	ug/L	EPA 8260B	03/15/2003
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	03/15/2003
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	03/15/2003
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	03/15/2003
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	03/15/2003
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Styrene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	03/15/2003
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/15/2003
Dibromofluoromethane (Surr)	95.8		%	EPA 8260B	03/15/2003
1,2-Dichloroethane-d4 (Surr)	98.6		%	EPA 8260B	03/15/2003
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	03/15/2003
Toluene - d8 (Surr)	99.4		%	EPA 8260B	03/15/2003

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32090

Date : 03/27/2003

QC Report : Method Blank Data

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/12/2003
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Bromomethane	< 20	20	ug/L	EPA 8260B	03/12/2003
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	03/12/2003
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	03/12/2003
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	03/12/2003
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	03/12/2003
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Styrene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	03/12/2003
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Dibromofluoromethane (Surr)	99.1		%	EPA 8260B	03/12/2003
1,2-Dichloroethane-d4 (Surr)	99.2		%	EPA 8260B	03/12/2003
4-Bromofluorobenzene (Surr)	92.3		%	EPA 8260B	03/12/2003
Toluene - d8 (Surr)	93.0		%	EPA 8260B	03/12/2003

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32090

Date : 03/27/2003

QC Report : Method Blank Data

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/12/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/12/2003
Toluene - d8 (Surr)	96.4		%	EPA 8260B	03/12/2003
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	03/12/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32090

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 03/27/2003

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1-Dichloroethane	32055-01	<0.50	49.9	49.9	49.7	49.6	ug/L	EPA 8260B	3/15/03	99.7	99.4	0.276	70-130	25
Benzene	32055-01	2.3	49.9	49.9	52.6	52.8	ug/L	EPA 8260B	3/15/03	101	101	0.520	70-130	25
1,2-Dichloroethane	32055-01	<0.50	49.9	49.9	47.1	46.5	ug/L	EPA 8260B	3/15/03	94.5	93.2	1.38	70-130	25
Toluene	32055-01	4.6	49.9	49.9	54.7	54.4	ug/L	EPA 8260B	3/15/03	100	99.8	0.574	70-130	25
Chlorobenzene	32055-01	<0.50	49.9	49.9	51.7	51.4	ug/L	EPA 8260B	3/15/03	104	103	0.556	70-130	25
Tert-Butanol	32055-01	410	249	249	642	646	ug/L	EPA 8260B	3/15/03	93.9	95.4	1.56	70-130	25
Methyl-t-Butyl Ether	32055-01	370	49.9	49.9	405	404	ug/L	EPA 8260B	3/15/03	66.7	64.3	3.66	70-130	25
1,1-Dichloroethane	32090-02	<0.50	40.0	40.0	42.6	42.6	ug/L	EPA 8260B	3/12/03	106	106	0.00	70-130	25
Benzene	32090-02	<0.50	40.0	40.0	45.0	45.0	ug/L	EPA 8260B	3/12/03	112	112	0.0445	70-130	25
1,2-Dichloroethane	32090-02	<0.50	40.0	40.0	39.2	39.0	ug/L	EPA 8260B	3/12/03	98.0	97.5	0.486	70-130	25
Toluene	32090-02	<0.50	40.0	40.0	41.1	41.0	ug/L	EPA 8260B	3/12/03	103	103	0.0731	70-130	25
Chlorobenzene	32090-02	<0.50	40.0	40.0	51.7	51.3	ug/L	EPA 8260B	3/12/03	129	128	0.718	70-130	25
Tert-Butanol	32090-02	3200	200	200	3300	3310	ug/L	EPA 8260B	3/12/03	24.3	30.4	22.2	70-130	25
Methyl-t-Butyl Ether	32090-02	<0.50	40.0	40.0	32.5	32.0	ug/L	EPA 8260B	3/12/03	81.2	80.0	1.46	70-130	25
Benzene	32052-03	<0.50	40.0	40.0	38.7	38.0	ug/L	EPA 8260B	3/12/03	96.7	94.9	1.88	70-130	25
Toluene	32052-03	<0.50	40.0	40.0	38.2	37.6	ug/L	EPA 8260B	3/12/03	95.4	94.0	1.48	70-130	25
Tert-Butanol	32052-03	<5.0	200	200	201	197	ug/L	EPA 8260B	3/12/03	100	98.4	2.21	70-130	25
Methyl-t-Butyl Ether	32052-03	<0.50	40.0	40.0	38.9	38.3	ug/L	EPA 8260B	3/12/03	97.2	95.8	1.50	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32090

QC Report : Laboratory Control Sample (LCS)

Date : 03/27/2003

Project Name : **610 Market Street, Oakland**

Project Number : **245-0594**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1-Dichloroethane	20.0	ug/L	EPA 8260B	3/15/03	99.8	70-130
Benzene	20.0	ug/L	EPA 8260B	3/15/03	101	70-130
1,2-Dichloroethane	20.0	ug/L	EPA 8260B	3/15/03	96.5	70-130
Toluene	20.0	ug/L	EPA 8260B	3/15/03	100	70-130
Chlorobenzene	20.0	ug/L	EPA 8260B	3/15/03	104	70-130
Tert-Butanol	100	ug/L	EPA 8260B	3/15/03	93.7	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	3/15/03	95.6	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	3/12/03	96.6	70-130
Benzene	40.0	ug/L	EPA 8260B	3/12/03	109	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	3/12/03	90.9	70-130
Toluene	40.0	ug/L	EPA 8260B	3/12/03	113	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	3/12/03	111	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/12/03	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/12/03	82.3	70-130
Benzene	40.0	ug/L	EPA 8260B	3/12/03	94.6	70-130
Toluene	40.0	ug/L	EPA 8260B	3/12/03	93.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/12/03	95.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/12/03	96.5	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Calscience Environmental Laboratories, Inc.

March 21, 2003

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 03-03-0866**
Client Reference: 610 Market Street, Oakland

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/14/2003 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical	Date Sampled:	03/11/03
2795 2nd Street, Suite 300	Date Received:	03/14/03
Davis, CA 95616-6593	Date Analyzed:	03/17/03
	Work Order No.:	03-03-0866
Attn: Joel Kiff	Method:	EPA 1664A
RE: 610 Market Street, Oakland	Page 1 of 1	

All concentrations are reported in mg/L (ppm).

Sample Number	Hexane Extractable Material - SGT Concentration	Reporting Limit
EFF	1.0	1.0
Method Blank	ND	1.0

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/14/03
Work Order No: 03-03-0866
Preparation: Total Digestion
Method: EPA 6010B / EPA 7470A

Project: 610 Market Street, Oakland

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EFF	**03-03-0866-1**	**03/11/03**	**Aqueous**	**03/14/03**	**03/18/03**	**030314L07**

Comment(s): Mercury was analyzed on 3/17/2003 9:26:14 PM with batch 030317L06

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Mercury	ND	0.00050	1		mg/L
Chromium (Total)	ND	0.00500	1		mg/L	Nickel	ND	0.00500	1		mg/L
Copper	0.00608	0.00500	1		mg/L	Silver	ND	0.00500	1		mg/L
Lead	ND	0.0100	1		mg/L	Zinc	0.174	0.010	1		mg/L

Method Blank	099-04-008-1,083	N/A	Aqueous	03/17/03	03/17/03	030317L06

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.00050	1		mg/L

Method Blank	097-01-003-2,892	N/A	Aqueous	03/14/03	03/14/03	030314L07

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Nickel	ND	0.00500	1		mg/L
Chromium (Total)	ND	0.00500	1		mg/L	Silver	ND	0.00500	1		mg/L
Copper	ND	0.00500	1		mg/L	Zinc	ND	0.0100	1		mg/L
Lead	ND	0.0100	1		mg/L						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/14/03
Work Order No: 03-03-0866
Preparation: N/A
Method: EPA 335.2

Project: 610 Market Street, Oakland

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EFF	**03-03-0866-1**	**03/11/03**	**Aqueous**	**N/A**	**03/20/03**	**30320CNL2**

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

Method Blank	099-05-061-1,233	N/A	Aqueous	N/A	03/20/03	30320CNL2

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/14/03
Work Order No: 03-03-0866
Preparation: N/A
Method: EPA 335.2

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-061-1,233	Aqueous	UV 2	N/A	03/20/03	30320CNL2

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Total Cyanide	89	90	80-120	1	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/14/03
Work Order No: 03-03-0866
Preparation: Total Digestion
Method: EPA 6010B

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EFF	Aqueous	ICP 3300	03/14/03	03/18/03	030314S07

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	102	103	80-120	1	0-20	
Chromium (Total)	106	107	80-120	1	0-20	
Copper	96	96	80-120	0	0-20	
Lead	103	103	80-120	0	0-20	
Nickel	104	105	80-120	1	0-20	
Silver	105	106	80-120	1	0-20	
Zinc	107	107	80-120	0	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Project: 610 Market Street, Oakland

Date Received: 03/14/03
Work Order No: 03-03-0866
Preparation: Total Digestion
Method: EPA 6010B

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-2,892	Aqueous	ICP 3300	03/14/03	030314-I-07	030314L07

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Cadmium	1.00	0.990	99	80-120	
Chromium (Total)	1.00	0.973	97	80-120	
Copper	1.00	0.954	95	80-120	
Lead	1.00	0.975	98	80-120	
Nickel	1.00	1.02	102	80-120	
Silver	0.500	0.470	94	80-120	
Zinc	1.00	1.01	101	80-120	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/14/03
Work Order No: 03-03-0866
Preparation: Total Digestion
Method: EPA 7470A

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
EFF	**Aqueous**	**Mercury**	**03/17/03**	**03/18/03**	**030317S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	103	102	71-134	1	0-14	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Project: 610 Market Street, Oakland

Date Received: 03/14/03
Work Order No: 03-03-0866
Preparation: Total Digestion
Method: EPA 7470A

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-006-1,083	Aqueous	Mercury	03/17/03	030317-L-06	030317L06

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury	0.0100	0.0104	104	90-122	

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 1664A

Kiff Analytical		Work Order No.:	03-03-0866
Page 1 of 1		Date Analyzed:	03/17/03

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits (%)	%RPD	Control Limits (%)
HEM - SGT	95	96	64 - 132	1	0 - 34

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-03-0866

Qualifier	Definition
ND	Not detected at indicated reporting limit.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-0 3 - 0 8 6 C

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KFC DATE: 3/14/03

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: KZ

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Applicable (N/A): _____

Initial: KZ

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	—		
Sample container label(s) consistent with custody papers	—		
Sample container(s) intact and good condition	—		
Correct containers for analyses requested	—		
Proper preservation noted on sample label(s)	—		
VOA vial(s) free of headspace.			—
Tedlar bag(s) free of condensation			—

Initial: KZ

COMMENTS:

KIFF ANALYTICAL LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 0866

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff

Geotracker COELT EDD REPORT? ___ YES X NO

Company/Address: Kiff Analytical, LLC

Sampling Company Log Code:

Phone No.:

FAX No.:

Global ID:

Project Number: 245-0594

P.O. No.: 32090

EDF Deliverable to (Email Address):

Project Name: 610 Market Street, Oakland

E-mail address: inbox@kiffanalytical.com

Project Address:

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Container: (blank)	Preservative: NaOH	Preservative: HNO3	Preservative: ICE	Preservative: NONE	Preservative: H2SO4	Matrix: WATER	Matrix: SOIL	Metals (Cd, Cr, Cu, Pb, Ni, Ag, Zn) EPA 6010	Mercury (EPA 7470A)	Cyanide (EPA 335.2)	OGHC (EPA 1664-SGT)				Date Due: March 25, 2003	For Lab Use Only
EFF	3/11/2003	1400		2	1			1	1	X		1	X		X	X	X	X				X	

Relinquished by:	Date	Time	Received by:
[signature] / Kiff Analytical	03/13/03	1440	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	3/14/03	1110	[signature]

Remarks: Incident# 98995750

Bill to:

KIFF ANALYTICAL

2795 2nd Street, Suite 300
Davis, CA 95616
(530) 297-4800 (530) 297-4803 fax

Shell Oil Products US Chain Of Custody Record

Equiva Project Manager to be invoiced:
☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ GRMT HOUSTON
Karen Petryna

32090

INCIDENT NUMBER (S&E ONLY): 98995750
SAP or GRMT NUMBER (TS/GRMT): 113569

DATE: 3/11/03
PAGE: 1 of 1

SAMPLING COMPANY: Cambria Environmental Technology, Inc.
LOG CODE:
SITE ADDRESS (Street and City): 610 Market Street, Oakland
GLOBAL ID NO.:
ADDRESS: 5900 Hollis Street, Emeryville, CA 94608
EDF DELIVERABLE TO (Responsible Party or Designee):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: 245-0594
PROJECT CONTACT (Hardcopy or PDF Report to): KEVIN DOHAN
SAMPLER NAME(S) (Print): DAYTON DUSCH
LAB USE ONLY
TELEPHONE: 510.420.0700 3318
FAX: 510.420.3394
E-MAIL: KDOHAN@CAMBRIA-ENV.COM

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☑ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

TOTALIZER - 84666

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX (EPA 8260B)	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	VOC's (8260B)	OGHC (EPA 1664-SGT)	Oxygenates (5) by (8260B)	Metals(Cd,Cr,Cu,Pb,Ni,Ag,Zn) EPA 60	Mercury (EPA 7470A)	Cyanide (EPA 335.2)
	INF	3/11/03	1405	W	5	X	X		X	X			X	X	X
	MID-1	"	1410	W	5	X	X		X						
	MID-2	"	1405	W	5	X	X		X						
	EFF	3/11/03	1400	W	8	X	X		X	X	X		X	X	X
	T-2	3	1430	AIR	1	X	X	X							

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°
• See Sample

5 VOAs w/ HCl 01
• OGHC – H_2SO_4 02
1L. Amber 03
• TOTAL Metals – 04
500 mL. Nitric 05
• Mercury • use
Same [redacted] H_2
[redacted]
• C[redacted] –
Poly [redacted]

Relinquished by: (Signature) Dayton Dusch	Received by: (Signature)	Date: 3/11/03	Time: 1845
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) Jacob Ewing Kiff Analytical	Date: 030103	Time: 1755

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&Q Graphics (714) 898-9702

Calscience
Environmental
Laboratories, Inc.

March 21, 2003

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 03-03-0959**
Client Reference: 610 Market Street, Oakland

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/15/2003 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/15/03
Work Order No: 03-03-0959
Preparation: Total Digestion
Method: EPA 6010B / EPA 7470A

Project: 610 Market Street, Oakland

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
INF	03-03-0959-1	03/13/03	Aqueous	03/17/03	03/18/03	030317L02

Comment(s): Mercury was analyzed on 3/18/2003 5:21:38 PM with batch 030317L08

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Mercury	ND	0.00050	1		mg/L
Chromium (Total)	ND	0.00500	1		mg/L	Nickel	0.0104	0.0050	1		mg/L
Copper	0.00632	0.00500	1		mg/L	Silver	ND	0.00500	1		mg/L
Lead	ND	0.0100	1		mg/L	Zinc	0.0780	0.0100	1		mg/L

Method Blank	099-04-008-1,085	N/A	Aqueous	03/17/03	03/18/03	030317L08

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.00050	1		mg/L

Method Blank	097-01-003-2,895	N/A	Aqueous	03/17/03	03/18/03	030317L02

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Cadmium	ND	0.00500	1		mg/L	Nickel	ND	0.00500	1		mg/L
Chromium (Total)	ND	0.00500	1		mg/L	Silver	ND	0.00500	1		mg/L
Copper	ND	0.00500	1		mg/L	Zinc	ND	0.0100	1		mg/L
Lead	ND	0.0100	1		mg/L						

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received:	03/15/03
Work Order No:	03-03-0959
Preparation:	N/A
Method:	EPA 335.2

Project: 610 Market Street, Oakland

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
INF	03-03-0959-1	03/13/03	Aqueous	N/A	03/20/03	30320CNL2

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

Method Blank	099-05-061-1,234	N/A	Aqueous	N/A	03/20/03	30320CNL2

Parameter	Result	RL	DF	Qual	Units
Total Cyanide	ND	0.050	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Caiscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/15/03
Work Order No: 03-03-0959
Preparation: Total Digestion
Method: EPA 6010B

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
INF	Aqueous	ICP 3300	03/17/03	03/18/03	030317S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	100	105	80-120	5	0-20	
Chromium (Total)	104	109	80-120	5	0-20	
Copper	93	97	80-120	5	0-20	
Lead	101	105	80-120	4	0-20	
Nickel	103	108	80-120	5	0-20	
Silver	104	109	80-120	5	0-20	
Zinc	102	125	80-120	19	0-20	3

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/15/03
Work Order No: 03-03-0959
Preparation: Total Digestion
Method: EPA 6010B

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-2,895	Aqueous	ICP 3300	03/18/03	030317-I-02	030317L02

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Cadmium	1.00	1.01	101	80-120	
Chromium (Total)	1.00	1.03	103	80-120	
Copper	1.00	0.918	92	80-120	
Lead	1.00	1.02	102	80-120	
Nickel	1.00	1.08	108	80-120	
Silver	0.500	0.503	101	80-120	
Zinc	1.00	1.07	107	80-120	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/15/03
Work Order No: 03-03-0959
Preparation: Total Digestion
Method: EPA 7470A

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
03-03-0976-3	Aqueous	Mercury	03/17/03	03/18/03	030317S09

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	106	102	71-134	5	0-14	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/15/03
Work Order No: 03-03-0959
Preparation: Total Digestion
Method: EPA 7470A

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-008-1,065	Aqueous	Mercury	03/19/03	030317L08	030317L08

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury	0.0100	0.0106	106	90-122	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 03/15/03
Work Order No: 03-03-0959
Preparation: N/A
Method: EPA 335.2

Project: 610 Market Street, Oakland

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-061-1,234	Aqueous	UV 2	N/A	03/20/03	50320CNL2

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Total Cyanide	89	90	80-120	1	0-20	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-03-0959

Qualifier	Definition
3	Spike or Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
ND	Not detected at indicated reporting limit.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-03-0951

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF DATE: 3-15-03

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: RW

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Applicable (N/A): _____

Initial: RW

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: RW

COMMENTS:

(0959)

KIFF ANALYTICAL LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

03-03-0959

Lab No. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Joel Kiff	Geotracker COELT EDD REPORT? ___YES _X_NO
Company/Address: Kiff Analytical, LLC	Sampling Company Log Code:
Phone No.:	FAX No.:
Global ID:	
Project Number: 245 0594	P.O. No.: 32183
EDF Deliverable to (Email Address):	
Project Name: 610 Market Street, Oakland	E-mail address: inbox@kiffanalytical.com
Project Address:	

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Container: Sleeve	Preservative: HCl	Preservative: HNO3	Preservative: ICE	Preservative: NONE	Preservative: NaOH	Matrix: WATER	Matrix: SOIL	Metals (Cd, Cr, Cu, Pb, Ni, Ag, Zn) EPA 601	Mercury (EPA 7470A)	Cyanide (EPA 335.2)	Date Due: March 21, 2003	For Lab Use Only
INF	3/13/2003	13:30		2				X			X	X		X	X	X	X	

Relinquished by: Kiff Analytical / Kiff Analytical	Date 03/14/03	Time 1840	Received by:	Remarks: Incident # 98995750
Relinquished by:	Date	Time	Received by:	SAP # 135692
Relinquished by: Cal overnight	Date 3/15/03	Time 12:15	Received by Laboratory:	Bill to:

MAR-21-2003 16:32 P.11

TOTAL P.11

KIFF ANALYTICAL

2795 2nd Street, Suite 300

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

Shell Oil Products US Chain Of Custody Record

Equiva Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT, HOUSTON

Karen Petryna

INCIDENT NUMBER (S&E ONLY): 98995750

SAP or CRMT NUMBER (TS/CRMT): 135692

DATE: 3/13/03

PAGE: 1 of 1

SAMPLING COMPANY: Cambria Environmental Technology, Inc.	LOG CODE: CETO	SITE ADDRESS (Street and City): 610 Market Street, Oakland	GLOBAL ID NO:
ADDRESS: 5900 Hollis Street, Emeryville, CA 94608		EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:
PROJECT CONTACT (Hardcopy or PDF Report to): Kevin Dolan		E-MAIL:	CONSULTANT PROJECT NO.: 245 0594
TELEPHONE: 510.420.0700	FAX: 510.420.3394	E-MAIL: kdolan@cambria-env.com	LAB USE ONLY

KEVIN DOLAN

TURNAROUND TIME (BUSINESS DAYS)

☐ 10 DAYS ☒ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☐

Flow TAM = 91990

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX (EPA 8260B)	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	VOC's (8260B)	OGHC (EPA 1664-SGT)	Oxygenates (5) by (8260B)	Metals(Cd,Cr,Cu,Pb,Ni,Ag,Zn) EPA 601	Mercury (EPA 7470A)	Cyanide (EPA 335.2)
	INF	3/13	1:30	AQ	2								X	X	X
	~~MID-1~~														
	~~MID-2~~														
	~~EFF~~														

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature) IN SECURE LOCATION	Date: 3/13/03	Time: 3:00 PM
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) K.K.F. Analytical	Date: 031403	Time: 1700