



Report Number : 12089

Date : 08/14/98

Tim Tatum
Bonkowski and Associates
3650 Mount Diablo Blvd., Suite 200
Lafayette, CA 94549

Subject : 9 Soil Samples and 1 Water Sample
Project Name : L98174
Project Number : L98174

Dear Mr. Tatum,

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



Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : L98174-Tank 1 E End :

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	5.4	1.0	mg/Kg	EPA 8020	08/14/98
Toluene	3.0	1.0	mg/Kg	EPA 8020	08/14/98
Ethylbenzene	30	1.0	mg/Kg	EPA 8020	08/14/98
Total Xylenes	45	1.0	mg/Kg	EPA 8020	08/14/98
Methyl-t-butyl ether	2.7	1.0	mg/Kg	EPA 8020	08/14/98
TPH as Gasoline	3100	200	mg/Kg	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	102		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	104		% Recovery	M EPA 8015	08/14/98

Sample : L98174-Tank 2 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Methyl-t-butyl ether	0.85	0.0050	mg/Kg	EPA 8020	08/14/98
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	100		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	96.9		% Recovery	M EPA 8015	08/14/98

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : L98174-Tank 3 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Methyl-t-butyl ether	1.8	0.0050	mg/Kg	EPA 8020	08/14/98
TPH as Gasoline	1.4	1.0	mg/Kg	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	101		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	99.6		% Recovery	M EPA 8015	08/14/98

Sample : L98174-Tank 4 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.0061	0.0050	mg/Kg	EPA 8020	08/14/98
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Methyl-t-butyl ether	2.8	0.0050	mg/Kg	EPA 8020	08/14/98
TPH as Gasoline	2.0	1.0	mg/Kg	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	102		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	99.1		% Recovery	M EPA 8015	08/14/98

Approved By: Joe Kiff

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Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : L98174-Tank 5 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Methyl-t-butyl ether	0.020	0.0050	mg/Kg	EPA 8020	08/14/98
TPH as Gasoline	< 1.0	1.0	mg/Kg	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	98.7		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	99.5		% Recovery	M EPA 8015	08/14/98

Sample : L98174-Tank 1 W End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	15	0.20	mg/Kg	EPA 8020	08/14/98
Toluene	120	0.20	mg/Kg	EPA 8020	08/14/98
Ethylbenzene	45	0.20	mg/Kg	EPA 8020	08/14/98
Total Xylenes	240	0.20	mg/Kg	EPA 8020	08/14/98
Methyl-t-butyl ether	56	0.20	mg/Kg	EPA 8020	08/14/98
TPH as Gasoline	2000	20	mg/Kg	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	91.5		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	172		% Recovery	M EPA 8015	08/14/98

Approved By:  Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



(510) 933-6067

Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : L98174-Tank 3 W End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	67	5.0	mg/Kg	EPA 8020	08/14/98
Toluene	650	5.0	mg/Kg	EPA 8020	08/14/98
Ethylbenzene	240	5.0	mg/Kg	EPA 8020	08/14/98
Total Xylenes	1400	5.0	mg/Kg	EPA 8020	08/14/98
Methyl-t-butyl ether	100	5.0	mg/Kg	EPA 8020	08/14/98
TPH as Gasoline	12000	500	mg/Kg	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	103		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	100		% Recovery	M EPA 8015	08/14/98

Sample : L98174-Tank 3 W End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.034	0.0050	mg/Kg	EPA 8020	08/14/98
Toluene	0.0064	0.0050	mg/Kg	EPA 8020	08/14/98
Ethylbenzene	0.036	0.0050	mg/Kg	EPA 8020	08/14/98
Total Xylenes	0.20	0.0050	mg/Kg	EPA 8020	08/14/98
Methyl-t-butyl ether	0.27	0.0050	mg/Kg	EPA 8020	08/14/98
TPH as Gasoline	2.6	1.0	mg/Kg	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	102		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	110		% Recovery	M EPA 8015	08/14/98

Approved By: Joe Kiff

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Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : L98174-Tank 4 W End

Matrix : Soil

Sample Date : 08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8020	08/14/98
Ethylbenzene	0.0081	0.0050	mg/Kg	EPA 8020	08/14/98
Total Xylenes	0.012	0.0050	mg/Kg	EPA 8020	08/14/98
Methyl-t-butyl ether	0.0071	0.0050	mg/Kg	EPA 8020	08/14/98
TPH as Gasoline	1.8	1.0	mg/Kg	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	100		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	100		% Recovery	M EPA 8015	08/14/98

Approved By:  Joel Kiff



Report Number : 12089

Date : 08/14/98

Tim Tatum
Bonkowski and Associates
3650 Mount Diablo Blvd., Suite 200
Lafayette, CA 94549

Subject : 9 Soil Samples and 1 Water Sample
Project Name : L98174
Project Number : L98174

Dear Mr. Tatum,

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,

A handwritten signature in black ink, appearing to read "Joel Kiff", is written over a printed name label.

Joel Kiff



Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : L98174-Tank 1 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	4400	100	mg/Kg	M EPA 8015	08/14/98

Sample : L98174-Tank 2 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	15	1.0	mg/Kg	M EPA 8015	08/14/98

Sample : L98174-Tank 3 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	1.7	1.0	mg/Kg	M EPA 8015	08/14/98

Sample : L98174-Tank 4 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	2.7	1.0	mg/Kg	M EPA 8015	08/14/98

Approved By:  Joe Kiff



Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : L98174-Tank 5 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	08/14/98

Sample : L98174-Tank 1 W End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	2300	100	mg/Kg	M EPA 8015	08/14/98

Approved By:  Joe Kiff

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Report Number : 12089

Date : 08/14/98

Subject : 9 Soil Samples and 1 Water Sample
Project Name : L98174
Project Number : L98174

Case Narrative

The measured value for TPH as Gasoline for sample W-L98174-Pit represents the MTBE in the sample
No other typical gasoline compounds were detected.

Approved By:  _____
Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : W-L98174-Pit

Matrix : Water

Sample Date : 08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 25	25	ug/L	EPA 8020	08/14/98
Toluene	< 25	25	ug/L	EPA 8020	08/14/98
Ethylbenzene	< 25	25	ug/L	EPA 8020	08/14/98
Total Xylenes	< 25	25	ug/L	EPA 8020	08/14/98
Methyl-t-Butyl ether	49000	250	ug/L	EPA 8020	08/14/98
TPH as Gasoline	43000	2500	ug/L	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	101		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	86.7		% Recovery	M EPA 8015	08/14/98

Could be N.D.

Quantify by area under curve, did not
resemble gasoline.

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Project Name : L98174

Project Number : L98174

Sample : L98174-Tank 1 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	4400	100	mg/Kg	M EPA 8015	08/14/98

Sample : L98174-Tank 2 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	15	1.0	mg/Kg	M EPA 8015	08/14/98

Sample : L98174-Tank 3 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	1.7	1.0	mg/Kg	M EPA 8015	08/14/98

Sample : L98174-Tank 4 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	2.7	1.0	mg/Kg	M EPA 8015	08/14/98

Approved By:  Joe Kiff



Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : L98174-Tank 5 E End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	08/14/98

Sample : L98174-Tank 1 W End

Matrix : Soil

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	2300	100	mg/Kg	M EPA 8015	08/14/98

Approved By:  Josh Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Report Number : 12089

Date : 08/14/98

Subject : 9 Soil Samples and 1 Water Sample
Project Name : L98174
Project Number : L98174

Case Narrative

The measured value for TPH as Gasoline for sample W-L98174-Pit represents the MTBE in the sample.
No other typical gasoline compounds were detected.

Approved By:  _____
Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 12089

Date : 08/14/98

Project Name : L98174

Project Number : L98174

Sample : W-L98174-Pit

Matrix : Water

Sample Date :08/13/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 25	25	ug/L	EPA 8020	08/14/98
Toluene	< 25	25	ug/L	EPA 8020	08/14/98
Ethylbenzene	< 25	25	ug/L	EPA 8020	08/14/98
Total Xylenes	< 25	25	ug/L	EPA 8020	08/14/98
Methyl-t-butyl ether	49000	250	ug/L	EPA 8020	08/14/98
TPH as Gasoline	43000	2500	ug/L	M EPA 8015	08/14/98
aaa-Trifluorotoluene (8020 Surrogate)	101		% Recovery	EPA 8020	08/14/98
aaa-Trifluorotoluene (Gasoline Surrogate)	86.7		% Recovery	M EPA 8015	08/14/98

Approved By:  _____
 Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800