

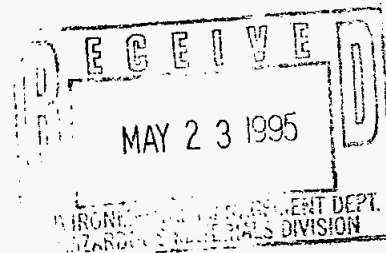


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7844 Madison Avenue, Suite 106 • Fair Oaks, CA 95628
1.800.242.5249 • Ph. 916.535.0200 • Fax 916.535.0207

May 11, 1995

Mr. Norm Wheat
Ramos Environmental Engineering
1515 South River Road
West Sacramento, CA 95691



Subject: **Underground Storage Tank Closure Report**
River Rat, 9840 Fair Oaks Blvd., Fair Oaks, California

Dear Mr. Wheat:

Apex Envirotech, Inc. (Apex), is pleased to provide Ramos Environmental Engineering (Ramos) this report documenting the results of the soil sampling conducted during the removal of five underground storage tanks (USTs), product piping and dispensers at the subject site. In addition, this report documents the results of the soil sampling conducted on the stockpiled soil generated during the removal of the UST system. The purpose of the investigation was to characterize the site's shallow subsurface exposed during the removal of the USTs, perform regulatory UST closure sampling and characterize the excavated soil stockpiled on site.

This report is based, in part, on information obtained by Apex from Ramos and is subject to modification as newly acquired information may warrant.

SITE DESCRIPTION

The site is a former retail gasoline station located one-eighth mile north of the American River in Fair Oaks, Sacramento County, California. The site is located in a commercial/residential area at the corner of Fair Oaks Blvd. and Pennsylvania Ave. The four 4,000 and one 8,000 gallon single-wall steel gasoline tanks were greater than 30 years in age. The tanks had been non-operational for approximately one year.

RESULTS OF UST REMOVAL

Approximately 350 cubic yards of sand backfill material was excavated prior to removal of the USTs and product lines. The Sacramento County Environmental Management Department (SCEMD) inspected the tanks upon removal. Apex personnel was not summoned to the site until after tanks #1, #2 and #3 (Figure 1) had been removed and transported from the site. The SCEMD representative, Mr. Cris Hamilton, reported that tank #2 was corroded and contained numerous corrosion pits. Tanks # 4 and #5 were inspected by Apex personnel and were reported

to be in poor condition. A hole approximately 1-½ inches in diameter was documented along the west side of Tank #5. The product lines were in fair condition with slight corrosion. Please refer to Attachment 1 for photographs. Once the tanks were removed, the tank basin excavation dimensions measured approximately 38 feet in width by 55 feet in length by 15 feet in total depth. The native soils encountered in the sidewalls and bottom of the UST basin and product trenches consisted of a medium brown sand.

Prior to removal, 950 gallons of gasoline was removed from the USTs then the tanks were triple-rinsed and the rinseate manifested and transported from the site for proper disposal. Rushway Trucking of Newcastle, California transported the removed tanks to Triangle, Inc. of Sacramento, California as non-hazardous waste.

On April 25, 1995, Apex personnel collected ten soil samples beneath the former USTs and on May 1 and 2, 1995, Apex personnel collected twelve soil samples beneath the former product lines and dispensers. The location of the samples (Figure 1) are in accordance with the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (dated August 10, 1990) and recommendations from SCEMD. Thirty-six soil samples were collected on May 1 and 2, 1995, under the direction of the SCEMD, from the stockpiled soil and composited, at the laboratory, into nine samples for analyses. All activities were performed in accordance with the Apex Standard Operating Procedures located in Attachment 2.

The samples were delivered, under chain-of-custody, to Sparger Technology, Inc. of Sacramento, California, a state-certified analytical laboratory for analyses of: total petroleum hydrocarbons (TPH), as gasoline, by modified EPA Method 8015, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020 and STLC lead by CAM1.

The analytical results are summarized in Table 1. The laboratory reports and chain-of-custody forms are included in Attachment 3. Concentrations of TPH, as gasoline, ranged from 1.5 to 4,600 parts-per-million (ppm) for samples collected along the western end of the former USTs. The remaining soil samples collected in the former UST basin reported below the reporting limit (BDL) for TPH, as gasoline, with the exception of T4E-15' that reported 490 ppm. TPH, as gasoline, ranging from BDL to 7,400 ppm was reported for samples collected within the product line trenches and beneath the dispensers along the northern island. The soil sample, PL-3, collected west of the southern most island and soil sample PL-10 collected at the southern most island reported TPH, as gasoline, at 3,900 and 5.0 parts-per-million (ppm), respectively. The remaining product line samples reported BDL for TPH, as gasoline. Benzene concentrations were reported at BDL for all soil samples collected in the UST basin and all but three in the product line and dispenser trenches. Concentrations of WET lead reported BDL for all soil samples collected within the former UST basin with results reported from BDL to 6.5 mg/L for soil samples collected within the former product line trenches and beneath the former dispensers.

COPY

Underground Storage Tank Closure Report
River Rat, 9840 Fair Oaks Blvd., Fair Oaks, California

STOCKPILE SOIL

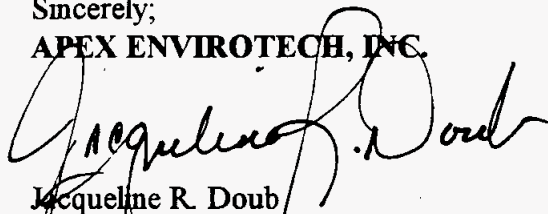
The analytical laboratory results reported BDL for TPH, as gasoline, and BTEX for all soil samples collected in the stockpiled soil with the exception of 9(A-D) Composite. The 9(A-D) Composite reported 49 ppm for TPH, as gasoline, BDL for benzene, 0.093 for toluene, 0.16 for ethylbenzene and 1.5 ppm for total xylenes. The composite 9(A-D) was collected from the soil generated during the excavation of the product line trenches where the soil sample PL-3 was collected. The WET lead analyses of the stockpiled soil ranged from BDL to 6.8 mg/L.

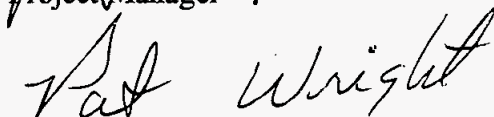
REMARKS/SIGNATURES

The information contained within this report reflects our professional opinions and was developed in accordance with currently available information. This report was prepared solely for the use of Ramos. Any reliance on this report by parties other than Ramos shall be at their own risk. The report was prepared under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

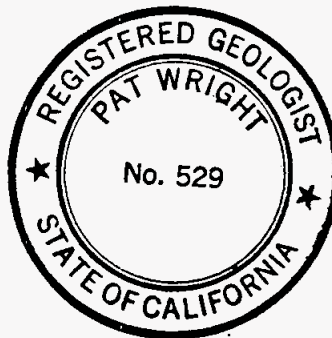
Apex is pleased to be of continued service to Ramos. If you have any questions or comments, please do not hesitate to call us at (916)535-0200.

Sincerely;
APEX ENVIROTECH, INC.


Jacqueline R. Doub
Project Manager


Pat Wright
Principal Geologist
CRG No. 00529

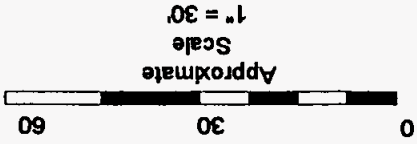
Attachments



RECEIVED

MAY 23 1995

FIGURE



DRAWN BY: Mark Andrews
DATE: 5/10/95
REVISIONS

River Rat
9840 Fair Oaks Blvd
Fair Oaks, California

PROJECT
NUMBER:
RAM03.001

FIGURE
1

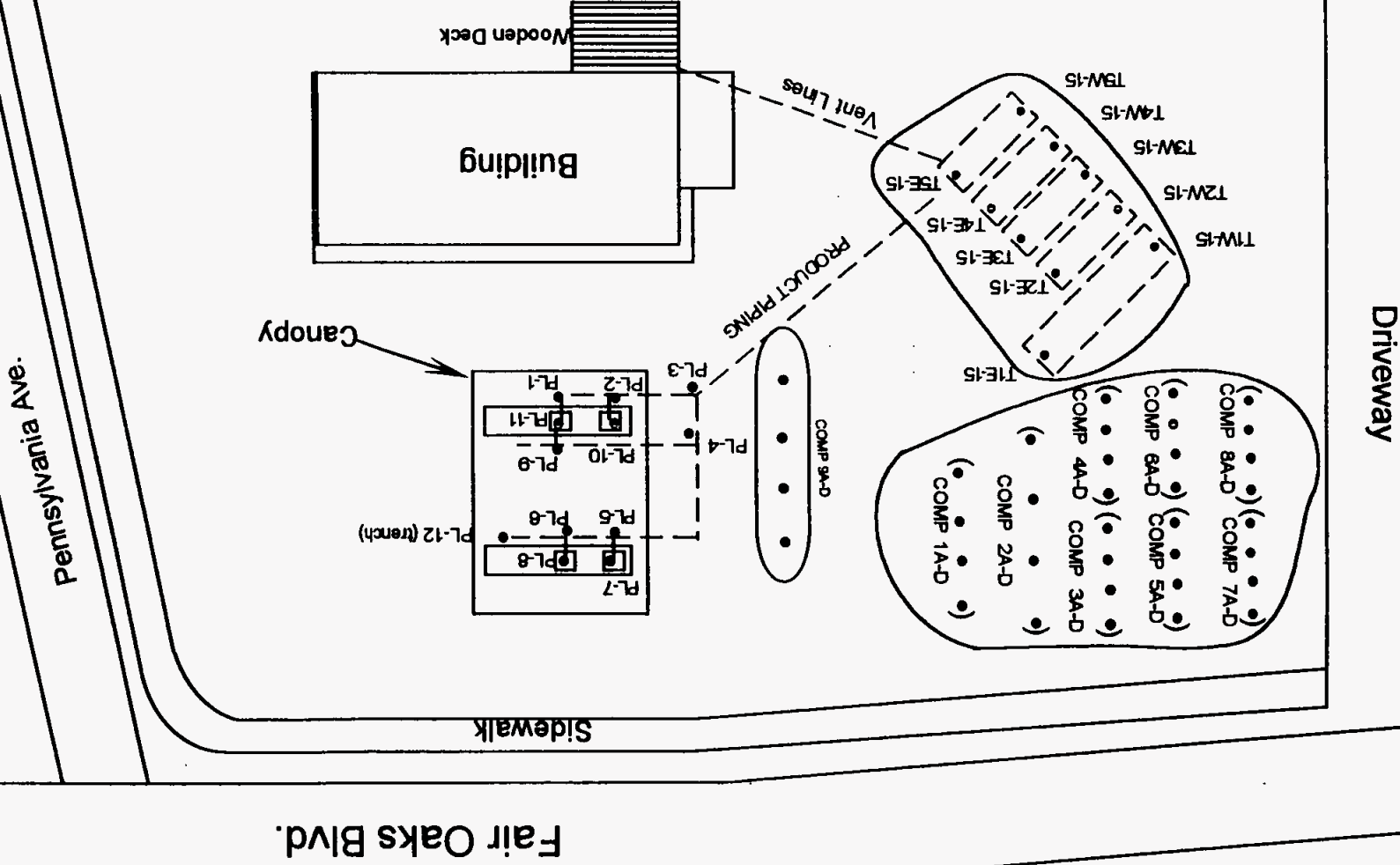
Site Map Soil Sample Locations

- = Sample Location
PL-1 = Product line sample
T1-15 = Tank Excavation Sample
1A-D = Stockpile Composite

- T1 - 8,000 GALLON GASOLINE
T2 - 4,000 GALLON GASOLINE
T3 - 4,000 GALLON GASOLINE
T4 - 4,000 GALLON GASOLINE
T5 - 4,000 GALLON GASOLINE

TANK SCHEDULE

LEGEND



TABLE

TABLE 1
ANALYTICAL RESULTS: SOIL
River Rat
9840 Fair Oaks Blvd, Fair Oaks, California
(All results in parts-per-million)

Sample ID	Date Collected	Sample Depth (Feet)	Total Petroleum Hydrocarbons As Gasoline	Aromatic Volatile Organics				Wet Lead (mg/L)
				Benzene	Toluene	Ethyl-benzene	Total Xylenes	
T1E-15'	4/25/95	15.0	<	<	<	<	<	<
T1W-15'	4/25/95	15.0	500*	<	<	<	0.28	<
T2E-15'	4/25/95	15.0	<	<	<	<	<	<
T2W-15'	4/25/95	15.0	1.5*	<	<	<	<	<
T3E-15'	4/25/95	15.0	<	<	<	<	<	<
T3W-15'	4/25/95	15.0	<	<	<	<	<	<
T4E-15'	4/25/95	15.0	490*	<	0.44	1.1	5.7	<
T4W-15'	4/25/95	15.0	340	<	5.4	6	22	<
T5E-15'	4/25/95	15.0	<	<	<	<	<	<
T5W-15'	4/25/95	15.0	4600	<	270	120	440	<
PL1@3'	5/1/95	3.0	<	<	<	<	<	1.1
PL2@2.5'	5/1/95	2.5	<	<	<	<	<	1.3
PL3@2.5'	5/1/95	2.5	3,900	<	<	19	70	3.8
PL4@3'	5/1/95	3.0	<	<	<	<	<	1.4
PL5@3'	5/1/95	3.0	<	<	<	<	<	0.91
PL6@1.5'	5/1/95	1.5	2,500	3	19	20	100	2.3
PL7@2'	5/1/95	2.0	4,300	<	43	25	90	2.6
PL8@3'	5/1/95	3.0	7,400	18	180	130	440	6.5
PL9@3.5'	5/1/95	3.5	<	<	<	<	<	1.5
PL10@1.5'	5/1/95	1.5	5.0	0.24	0.29	0.032	110	15
PL11@3'	5/1/95	3.0	<	<	<	<	<	4.5
Trench	5/2/95	3.0	<	<	<	<	<	<
STP1A-1D	5/1/95	NA	<	<	<	<	<	5.1
STP2A-2D	5/1/95	NA	<	<	<	<	<	6.8
STP3A-3D	5/1/95	NA	<	<	<	<	<	3.7
STP4A-4D	5/1/95	NA	<	<	<	<	<	4.6
5(A-D)Comp.	5/2/95	NA	<	<	<	<	<	<
6(A-D)Comp.	5/2/95	NA	<	<	<	<	<	<
7(A-D)Comp.	5/2/95	NA	<	<	<	<	<	<
8(A-D)Comp.	5/2/95	NA	<	<	<	<	<	<
9(A-D)Comp.	5/2/95	NA	49*	<	0.093	0.16	1.5	<

NOTES:

- < = Below detection limits per "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites"(August 10, 1990) Practical Quantitation Reporting Limits. (PQL for BTEX = 0.005 ppm, TPH as gasoline and diesel = 1.0 ppm).
- NA = Not Analyzed/Applicable
- * = Weathered Gasoline Detected
- T1E-15' = Soil Sample Collected Beneath the Tank #1 on the East End of the Tank at 15 feet below surface
- PL11@3' = Product Line Sample Collected at 3 feet below surface
- Trench = Product Line Sample Collected at 3 feet below surface
- STP4A-4D = Stockpile Soil Composite Sample
- 9(A-D) = Stockpile Soil Composite Sample

ATTACHMENT 1
PHOTOGRAPHS

Error

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ATTACHMENT 2
APEX STANDARD OPERATING PROCEDURES

APEX ENVIROTECH, INC.
STANDARD OPERATING PROCEDURE
Excavation / Ust Removal

SOP - 2
SOIL EXCAVATION AND SAMPLING

Excavation and subsequent soil sampling is performed under the direction of a registered geologist or civil engineer. To reduce the potential for cross-contamination, all excavation equipment is either steam cleaned or washed prior to use and between excavations. Soil samples for chemical analysis are collected in cleaned, thin-walled brass tubes of varying diameters and lengths (e.g., 6 inches long by 2 inches outside diameter) or other appropriate cleaned sample container. If used, one tube may be set in a 2-inch inside diameter, hand-driven sampler. To reduce the potential for cross-contamination between samples, the sampler is washed in a solution and doubly rinsed between each sampling event.

Upon recovery, a portion of the soil sample is sealed for later screening with either a portable photoionization detector, flame ionization detector, or an explosimeter. Another portion of the sample is used for description of the excavated materials. A third portion of the sample is hermetically sealed, labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. These procedures minimize the potential for cross-contamination and volatilization of volatile organic compounds prior to chemical analysis.

In the event the soil samples cannot be submitted to the analytical laboratory on the same day they are collected (e.g., due to weekends or holidays), the samples are temporarily stored until the first opportunity for submittal either on ice in a cooler, such as when in the field, or in a refrigerator at Apex's office.

SOP - 3
SOIL CLASSIFICATION

Soil samples are classified according to the Unified Soil Classification System. Representative portions of the samples may be submitted, under strict chain-of-custody, to an analytical laboratory for further examination and verification of the in-field classification and analysis of soil mechanical and/or petrophysical properties. The soil types are indicated on logs of either excavations or borings together with depths corresponding to the sampling points and other pertinent information.

SOP - 4
SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES

Sample identification and chain-of-custody procedures ensure sample integrity as well as document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on-site personnel, and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample-control officer at the laboratory will verify sample integrity,

correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

SOP - 5
LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;
2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
3. Standard operating procedures describing routine and periodic instrument maintenance;
4. "Out-of-Control"/Corrective Action documentation procedures; and,
5. Multi-level review of raw data and client reports.

ATTACHMENT 3
ANALYTICAL LABORATORY RESULTS REPORT AND
CHAIN-OF-CUSTODY FORM

III Quality Control

A. Project Specific QC. No project specific QC (i.e., spikes and/or duplicates) was requested.

B. Method Blank Results. A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

C. Laboratory Control Spike. A Laboratory Control Spike (LCS) is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The LCS results associated with your samples are on the attached Laboratory Control Spike and Laboratory Control Spike Duplicate Analysis Report.

D. Matrix Spike Results. A Matrix Spike is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The Matrix Spike results associated with your samples are on the attached Matrix Spike and Matrix Spike Duplicate Analysis Report.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{(\text{measured concentration}) \times 100}{(\text{actual concentration})}$$

IV Analysis Results

Results are on the attached data sheets.

8020/8015 Modified Analysis Report

Project: River RAT-452 (RAM03.001)

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: Apr 25, 1995
Date Received: Apr 26, 1995
Date Analyzed: May 1, 1995
Invoice #: 4678

Sparger
Technology, Inc.
With Automation in Mind

Matrix: Soil

Unit = ug/g

Lab ID	Client ID	B	Det Limit	T	Det Limit	E	Det Limit	X	Det Limit	TPHgas	Det Limit	Surrogate % Recovery of Trifluorotoluene	Dilution 1:
ST95-04-779A	T1E-15'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	83%	1
ST95-04-781A	T1W-15'	ND	0.10	ND	0.10	ND	0.10	0.28	0.10	500 *	20	128%	20
ST95-04-783A	T2E-15'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	103%	1
ST95-04-785A	T2W-15'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	1.5 *	1.0	97%	1
ST95-04-787A	T3E-15'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	102%	1
ST95-04-789A	T3W-15'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	75%	1
ST95-04-791A	T4E-15'	ND	0.10	0.44	0.10	1.1	0.10	5.7	0.10	490 *	20	141% **	20
ST95-04-793A	T4W-15'	ND	1.0	5.4	1.0	6.0	1.0	22	1.0	340	200	98%	200
ST95-04-795A	T5E-15'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	104%	1
ST95-04-797A	T5W-15'	ND	12	270	12	120	12	440	12	4600	2500	110%	2500

ppb = parts per billion = ug/L = micrograms per Liter

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Weathered gasoline was detected.

** High surrogate recovery due to matrix interference.

R. L. James

R. L. James, Principal Chemist

May 3, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8020/8015 Modified Analysis Report

Project: River RAT-452 (RAM03.001)

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 1, 1995
Date Received: May 2, 1995
Date Analyzed: May 4, 1995
Invoice #: 4706

Sparger
Technology, Inc.
With Automation in Mind

Matrix: Soil

Unit = mg/kg

Lab ID	Client ID	B	Det Limit	T	Det Limit	E	Det Limit	X	Det Limit	TPHgas	Det Limit	Surrogate % Recovery of Trifluorotoluene	Dilution 1:
ST95-05-092A	PL1 @3'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	86%	1
ST95-05-094A	PL2 @2.5'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	50% *	1
ST95-05-096A	PL3 @2.5'	ND	2.5	ND	2.5	19	2.5	70	2.5	3900	500	79%	500
ST95-05-098A	PL4 @3'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	84%	1
ST95-05-100A	PL5 @3'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	60% *	1
ST95-05-102A	PL6 @1.5'	3.0	2.5	19	2.5	20	2.5	100	2.5	2500	500	104%	500
ST95-05-104A	PL7 @2'	ND	2.5	43	2.5	25	2.5	90	2.5	4300	500	101%	500
ST95-05-106A	PL8 @3'	18	12	180	12	130	12	440	12	7400	2500	101%	2500

ppb = parts per billion = ug/L = micrograms per Liter

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

* Low surrogate recovery due to matrix effects.

R. L. James

R. L. James, Principal Chemist

May 9, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8020/8015 Modified Analysis Report Project: River RAT-452 (RAM03.001)

Date Sampled: May 1, 1995
Date Received: May 2, 1995
Date Analyzed: May 4, 1995
Invoice #: 4706

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Matrix: Soil

Lab ID	Client ID	B	Det Limit	T	Det Limit	E	Det Limit	X	Det Limit	TPH Gas	Det Limit	Surrogate % Recovery of Trifluorotoluene	Dilution 1:
ST95-05-108A	PL9 @3.5'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	71%	1
ST95-05-110A	PL10 @1.5'	0.24	0.025	0.29	0.025	0.032	0.005	110	0.005	5.0	1.0	78%	**
ST95-05-112A	PL11 @1.5'	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	72%	1
ST95-05-114A	STP1A-1D	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	84%	1
ST95-05-122A	STP2A-2D	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	77%	1
ST95-05-124A	STP3A-3D	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	80%	1
ST95-05-126A	STP4A-4D	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	84%	1

Unit = mg/kg

ppb = parts per billion = ug/L = micrograms per liter
ppm = parts per million = mg/kg = milligrams per kilogram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

** Dilution 1:5 for Benzene & Toluene

May 9, 1995
Date Reported

R. L. James, Principal Chemist

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

8020/8015 Modified Analysis Report

Project: River RAT (452)

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 2, 1995
Date Received: May 3, 1995
Date Analyzed: May 5, 1995
Invoice #: 4712

Sparger
Technology, Inc.
With Automation in Mind

Matrix: Soil

Unit = mg/kg

Lab ID	Client ID	B	Det Limit	T	Det Limit	E	Det Limit	X	Det Limit	TPHgas	Det Limit	Surrogate % Recovery of Trifluorotoluene	Dilution 1:
ST95-05-154A	Trench	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	107%	1
ST95-05-156A	7(A-D) Comp.	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	86%	1
ST95-05-158A	8(A-D) Comp.	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	77%	1
ST95-05-160A	6(A-D) Comp.	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	79%	1
ST95-05-162A	5(A-D) Comp.	ND	0.005	ND	0.005	ND	0.005	ND	0.005	ND	1.0	67% *	1
ST95-05-164A	9(A-D) Comp.	ND	0.025	0.093	0.025	0.16	0.025	1.5	0.025	49 **	5.0	88%	5

ppb = parts per billion = ug/L = micrograms per Liter

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Low surrogate recovery due to matrix effects.

** Weathered gasoline was detected.



R. L. James, Principal Chemist

May 9, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA.
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

CAM 1 (STLC): WET
Project: River RAT-452 (RAM03.001)

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: Apr 25, 1995
Date Received: Apr 26, 1995
Date Analyzed: May 2, 1995
Invoice #: 4678

Matrix: Soil

Units: mg/L

Lab ID	Client ID	Lead (Pb) Result	Reporting Limit	Dilution 1:
ST95-04-780A	T1E-15'	ND	0.20	1
ST95-04-782A	T1W-15'	ND	0.20	1
ST95-04-784A	T2E-15'	ND	0.20	1
ST95-04-786A	T2W-15'	ND	0.20	1
ST95-04-788A	T3E-15'	ND	0.20	1
ST95-04-790A	T3W-15'	ND	0.20	1
ST95-04-792A	T4E-15'	ND	0.20	1
ST95-04-794A	T4W-15'	ND	0.20	1
ST95-04-796A	T5E-15'	ND	0.20	1
ST95-04-798A	T5W-15'	ND	0.20	1

ppm = parts per million = mg/L = milligrams per Liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 2, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA,
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

CAM 1 (STLC): WET
Project: River RAT-452 (RAM03.001)

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 1, 1995
Date Received: May 2, 1995
Date Analyzed: May 5, 1995
Invoice #: 4706

Matrix: Soil

Units: mg/L

Lab ID	Client ID	Lead (Pb) Result	Reporting Limit	Dilution 1:
ST95-05-093A	PL1 @3'	1.1	0.20	1
ST95-05-095A	PL2 @2.5'	1.3	0.20	1
ST95-05-097A	PL3 @2.5'	3.8	0.20	1
ST95-05-099A	PL4 @3'	1.4	0.20	1
ST95-05-101A	PL5 @3'	0.91	0.20	1
ST95-05-103A	PL6 @1.5'	2.3	0.20	1
ST95-05-105A	PL7 @2'	2.6	0.20	1
ST95-05-107A	PL8 @3'	6.5	0.20	1
ST95-05-109A	PL9 @3.5'	1.5	0.20	1
ST95-05-111A	PL10 @1.5'	15	0.20	1
ST95-05-113A	PL11 @1.5'	4.5	0.20	1
ST95-05-115A	STP1A-1D	5.1	0.20	1
ST95-05-123A	STP2A-2D	6.8	0.20	1
ST95-05-125A	STP3A-3D	3.7	0.20	1
ST95-05-127A	STP4A-4D	4.6	0.20	1

ppm = parts per million = mg/L = milligrams per Liter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 8, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA.
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1014)

**CAM 1 (STLC): WET
Project: River RAT (452)**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 2, 1995
Date Received: May 3, 1995
Date Analyzed: May 8, 1995
Invoice #: 4712

Matrix: Soil

Units: mg/L

Lab ID	Client ID	Lead (Pb) Result	Reporting Limit	Dilution 1:
ST95-05-155A	Trench	ND	0.20	1
ST95-05-157A	7(A-D) Comp.	ND	0.20	1
ST95-05-159A	8(A-D) Comp.	ND	0.20	1
ST95-05-161A	6(A-D) Comp.	ND	0.20	1
ST95-05-163A	5(A-D) Comp.	ND	0.20	1
ST95-05-165A	9(A-D) Comp.	ND	0.20	1

ppm = parts per million = mg/L = milligrams per Liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 9, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA,
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

8020 Modified Laboratory Control Spike (LCS) & Laboratory Control Spike Duplicate (LCSD) BTEX Analysis Report

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: Apr 25, 1995
Date Received: Apr 26, 1995
Date Analyzed: May 1, 1995

Project ID: 452 (RAM03.001)

Project Name: River RAT

Client ID: LCS/LCSD

LAB ID: ST95-05-001 LCS
ST95-05-001 LCSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	31	30	ug/kg	103%	100%	3%
Toluene	30 ppb	ND	30	30	ug/kg	100%	100%	0%
Ethylbenzene	30 ppb	ND	29	30	ug/kg	97%	100%	3%
Xylenes	30 ppb	ND	29	29	ug/kg	97%	97%	0%

Surrogate % Recovery of Trifluorotoluene =

108% LCS

97% LCSD

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 3, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1814)

**8020 Modified Matrix Spike (MS) & Matrix Spike Duplicate (MSD)
BTEX Analysis Report**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: Apr 25, 1995
Date Received: Apr 26, 1995
Date Analyzed: May 1, 1995

Project ID: 452 (RAM03.001)

Project Name: River RAT

Client ID: MS/MSD (Batch)

LAB ID: ST95-04-872A MS
ST95-04-872A MSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	32	29	ug/kg	107%	97%	10%
Toluene	30 ppb	ND	32	27	ug/kg	107%	90%	17%
Ethylbenzene	30 ppb	ND	30	25	ug/kg	100%	83%	18%
Xylenes	30 ppb	ND	29	26	ug/kg	97%	87%	11%

Surrogate % Recovery of Trifluorotoluene =

105% MS

103% MSD

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 3, 1995

DATE

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

**8020 Modified Laboratory Control Spike (LCS) &
Laboratory Control Spike Duplicate (LCSD) BTEX Analysis Report**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 1, 1995
Date Received: May 2, 1995
Date Analyzed: May 4, 1995

Project ID: 452 (RAM03.001)

Project Name: River RAT

Client ID: LCS/LCSD

LAB ID: ST95-05-004 LCS
ST95-05-004 LCSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	29	29	ug/kg	97%	97%	0%
Toluene	30 ppb	ND	29	28	ug/kg	97%	93%	4%
Ethylbenzene	30 ppb	ND	30	30	ug/kg	100%	100%	0%
Xylenes	30 ppb	ND	30	29	ug/kg	100%	97%	3%

Surrogate % Recovery of Trifluorotoluene =

89% LCS

86% LCSD

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 9, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1814)

8020 Modified Matrix Spike (MS) & Matrix Spike Duplicate (MSD) BTEX Analysis Report

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 1, 1995
Date Received: May 2, 1995
Date Analyzed: May 4, 1995

Project ID: 452 (RAM03.001)

Project Name: River RAT

Client ID: MS/MSD (Batch)

LAB ID: ST95-05-092A MS
ST95-05-092A MSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	23	23	ug/kg	77%	77%	0%
Toluene	30 ppb	ND	22	21	ug/kg	73%	70%	5%
Ethylbenzene	30 ppb	ND	23	21	ug/kg	77%	70%	9%
Xylenes	30 ppb	ND	23	21	ug/kg	77%	70%	9%

Surrogate % Recovery of Trifluorotoluene =

76% MS

88% MSD

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

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R. L. James, Principal Chemist

May 9, 1995

DATE

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1814)

8020 Modified Laboratory Control Spike (LCS) & Laboratory Control Spike Duplicate (LCSD) BTEX Analysis Report

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 2, 1995
Date Received: May 3, 1995
Date Analyzed: May 5, 1995

Project ID: 452

Project Name: River RAT

Client ID: LCS/LCSD

LAB ID: ST95-05-005 LCS
ST95-05-005 LCSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	27	28	ug/kg	90%	93%	4%
Toluene	30 ppb	ND	27	28	ug/kg	90%	93%	4%
Ethylbenzene	30 ppb	ND	28	29	ug/kg	93%	97%	4%
Xylenes	30 ppb	ND	28	29	ug/kg	93%	97%	4%

Surrogate % Recovery of Trifluorotoluene =

86% LCS

87% LCSD

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 9, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1814)

**8020 Modified Matrix Spike (MS) & Matrix Spike Duplicate (MSD)
BTEX Analysis Report**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 2, 1995
Date Received: May 3, 1995
Date Analyzed: May 5, 1995

Project ID: 452

Project Name: River RAT

Client ID: MS/MSD

LAB ID: ST95-05-154A MS
ST95-05-154A MSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	27	26	ug/kg	90%	87%	4%
Toluene	30 ppb	ND	27	24	ug/kg	90%	80%	12%
Ethylbenzene	30 ppb	ND	28	24	ug/kg	93%	80%	15%
Xylenes	30 ppb	ND	27	24	ug/kg	90%	80%	12%

Surrogate % Recovery of Trifluorotoluene =

88% MS

88% MSD

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 9, 1995

DATE

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1814)

**Metal, (STLC)
LCS / LCSD Recoveries**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: Apr 25, 1995
Date Received: Apr 26, 1995
Date Analyzed: May 2, 1995

Project #: 452 (RAM03.001)

Project Name: River RAT

Client ID: LCS/LCSD

LAB ID: 950501A

Matrix: Soil

Dilution:

Units : (mg/L)

Element	Spike Conc.	LCS	LCS % Recovery	LCSD	LCSD % Recovery	% RSD
Lead (Pb)	5.0	5.5	110%	5.7	114%	4%

ppm= parts per million = mg/L = milligram per Liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 2, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

**Metal, (STLC)
MS/MSD Recoveries**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: Apr 25, 1995
Date Received: Apr 26, 1995
Date Analyzed: May 2, 1995

Project #: 452 (RAM03.001)

Project Name: River RAT

Client ID: MS/MSD

LAB ID: ST95-04-777A MS
ST95-04-777A MSD

Matrix: Soil

Dilution:

Units : (mg/L)

Element	Sample Conc.	Spike Conc.	MS	MS % Recovery	MSD	MSD % Recovery	% RSD
Lead (Pb)	ND	5.0	5.3	106%	4.9	98%	8%

ppm = parts per million = mg/L = milligram per Liter

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R. L. James, Principal Chemist

May 2, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

**Metal, (STLC)
LCS / LCSD Recoveries**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 1, 1995
Date Received: May 2, 1995
Date Analyzed: May 5, 1995

Project #: 452 (RAM03.001)

Project Name: River RAT

Client ID: LCS/LCSD

LAB ID: 950505A

Matrix: Soil

Dilution:

Units : (mg/L)

Element	Spike Conc.	LCS	LCS % Recovery	LCSD	LCSD % Recovery	% RSD
Lead (Pb)	100	100	100%	96	96%	4%

ppm= parts per million = mg/L = milligram per Liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 8, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

**Metal, (STLC)
MS/MSD Recoveries**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 1, 1995
Date Received: May 2, 1995
Date Analyzed: May 5, 1995

Project #: 452 (RAM03.001)

Project Name: River RAT

Client ID: MS/MSD

LAB ID: ST95-05-093A MS
ST95-05-093A MSD

Matrix: Soil

Dilution:

Units : (mg/L)

Element	Sample Conc.	Spike Conc.	MS	MS % Recovery	MSD	MSD % Recovery	% RSD
Lead (Pb)	1.1	100	92	91%	91	90%	1%

ppm= parts per million = mg/L = milligram per Liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 8, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

**Metal, (STLC)
LCS / LCSD Recoveries**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 2, 1995
Date Received: May 3, 1995
Date Analyzed: May 8, 1995

Project #: 452

Project Name: River RAT

Client ID: LCS/LCSD

LAB ID: 950508A

Matrix: Soil

Dilution:

Units : (mg/L)

Element	Spike Conc.	LCS	LCS % Recovery	LCSD	LCSD % Recovery	% RSD
Lead (Pb)	5.0	6.0	120%	5.9	118%	2%

ppm= parts per million = mg/L = milligram per Liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 9, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

**Metal, (STLC)
MS/MSD Recoveries**

Attention: Mr. Dave Irby
Ramos Env. Engineering
1515 S. River Road
W. Sacramento, CA 95691

Date Sampled: May 2, 1995
Date Received: May 3, 1995
Date Analyzed: May 8, 1995

Project #: 452

Project Name: River RAT

Client ID: MS/MSD

LAB ID: ST95-05-254A MS
ST95-05-254A MSD

Matrix: Soil

Dilution:

Units : (mg/L)

Element	Sample Conc.	Spike Conc.	MS	MS % Recovery	MSD	MSD % Recovery	% RSD
Lead (Pb)	0.48	5.0	6.3	116%	6.3	116%	0%

ppm= parts per million = mg/L = milligram per Liter

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

May 9, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

SPARGER TECHNOLOGY, INC.

3050 Fite Circle, Suite 112
Sacramento, CA 95827

Phone: (916) 362-8947

FAX: (916) 362-0947

Project Manager:

PAUL INBY

Phone: (916) 371-5747

Fax: (916) 371-9312

Report Address:

KAMOS Environmental
P.O. Box 401
WEST SACRAMENTO, CA. 95691

Project Name: Given RAT

Project #: ~~XXXX~~ KAMOS-001

Project Location:

9540 FAIR OAKS BLVD
FAIR OAKS, CA. 95628

KAMOSJOB# 452

P.O. #:

RE7321

CHAIN OF CUSTODY RECORD

4678

Number:

ANALYSIS REQUEST

REMARKS: AS SEND COPY OF ANALYTICAL RESULTS TO APEX ENVIRONMENTAL
7844 MADISON AVE STE 106
FAIR OAKS CA, 95628

WET (STLC)

TCLP

Total

TAT

SAMPLE ID	Sampling		Container		Preservative Used				Matrix														TAT											
	Date	Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other:	HCl/HNO ₃ /H ₂ O ₂	None	Other:	Water	Soil	Air	Other:	BTEX (602/8020)/503.1	BTEX/TPH/gas (602/8020/8015)	TPH/diesel/TPH/motor oil(8015)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCB's)	EPA 624/8240/524.2	EPA 625/8270/525	Organic Lead	Total Oil & Grease (5520)	STLC - WET LEAD	CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Other:	Standard Turnaround	Rush Services (48hr), (24hr), or (12	Holiday/Weekend Rush		
T1E-15'	4-25-95	1:20 pm	X				X					X			X											X								
T1W-15'		1:05 pm																																
T2E-15'		1:00 pm																																
T2W-15'		1:15 pm																																
T3E-15'		12:50 pm																																
T3W-15'		1:10 pm																																
T4E-15'		12:30 pm																																
T4W-15'		12:45 pm																																
T5E-15'		12:20 pm																																
T5W-15'		12:25 pm																																

Relinquished by:

[Signature]

Received by:

[Signature]

Relinquished by:

Received by:

Date: 4/26/95

Time: 2:55 P.M.

Date: 4/26/95

Time: 2:55 P.M.

Date:

Time:

Date:

Time:

[illegible]

Time

SPARGER TECHNOLOGY, INC.

3050 Rte 66, Suite 112

Secramento, CA 95827

Project Manager:

Mark Anderson

Report Address:

APEX - Fair Oaks

Billing Address:

Phone: (916) 362-8947

FAX: (916) 362-0947

Phone: 635-0200

Fax: 535-0207

Project Name:

River Rat

Project Location:

9840 Fair Oaks Blvd.

Fair Oaks, CA

Project #:

452

P.O. #:

RE 7321

CHAIN OF CUSTODY RECORD

Number:

4712

ANALYSIS REQUEST

REMARKS:

2/3

TCIP

Total

TAT

SAMPLE ID	Date	Time	Container			Preservative Used			Matrix		
			40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other:	HC/MNO3/ACE	None	Other:	Water
6A	5-2-95	16:44	X						X		X
6B		15:46	X						X		X
6C		15:48	X						X		X
6D		15:50	X						X		X
5A		15:52	X						X		X
5B		15:54	X						X		X
5C		15:56	X						X		X
5D		15:58	X						X		X

Relinquished by:

Received by:

Relinquished by:

Received by:

Date: 5-3-95

Time: 11:25 am

Date: 5/3/95

Time: 1:30 pm

Date:

Time:

Date:

Time:

SPARGER TECHNOLOGY, INC.

3050 Pitt Circle, Suite 112

Sacramento, CA 95827

Project Manager:

Mack Andrews

Report Address:

APEX - Fair Oaks

Project Name:

River Rat

Project Location:

*9840 Fair Oaks Blvd.
Fair Oaks, CA*

Project #:

452

P.O. #:

RE 7321

Billing Address:

Phone: (916) 362-8947

FAX: (916) 362-0947

Phone: 535-0200

Fax: 535-0207

CHAIN OF CUSTODY RECORD

Number:

4712

ANALYSIS REQUEST

REMARKS: *Composite SAMPLES 4:1
5,6,7,8,9 (A-D)*

SAMPLE ID	Date	Time	Container			Preservative Used			Matrix			Other:	TCLP	Total	WET (STLC)	TAT
			40 mL VOA	1 L amber bottle	250 mL Plastic	None	Other:	HCINNO3ACE	Water	Soil	Air					
<i>Trench</i>	<i>5-2-95</i>	<i>15:10</i>				X				X						
<i>7A</i>		<i>15:19</i>	X	X		X				X						
<i>7B</i>		<i>15:21</i>	X	X		X				X						
<i>7C</i>		<i>15:22</i>	X	X		X				X						
<i>7D</i>		<i>15:24</i>	X	X		X				X						
<i>8A</i>		<i>15:36</i>	X	X		X				X						
<i>8B</i>		<i>15:38</i>	X	X		X				X						
<i>8C</i>		<i>15:40</i>	X	X		X				X						
<i>8D</i>		<i>15:42</i>	X	X		X				X						

Relinquished by:

Received by:

Relinquished by:

Received by:

Jeff Wilkey

Mack Andrews

Date: *5-2-95*

Time: *07:11 AM*

Date: *5/3/95*

Time: *11:25*

Date:

Time:

Date:

Time:

SPARGER TECHNOLOGY, INC.

3050 Flie Circle, Suite 112
 Phone: (916) 362-8947
 Sacramento, CA 95827
 Project Manager: Mark Andrews
 Phone: 635-0200
 Fax: 535-0207

Report Address: APEX - Fair Oaks

Project Name: River Rat
 Project #: 452

Project Location: 9840 Fair Oaks Blvd.
Fair Oaks, CA
 P.O. #: RE 1321

CHAIN OF CUSTODY RECORD

4712

Number:

ANALYSIS REQUEST

REMARKS: 3/3

WET (STLC)	
TCLP	
Total	

Sample ID	Date	Time	40 mL VOA	Brass Sleeve	1 L Amber Bottle	250 mL Plastic	Other	HCl/KNO3/AC	None	Other	Water	Soil	Air	Other	Matrix	TAT
9A	5-2-95	16:00	X	X					X			X				Rush Services (48hr), (24hr), or (12)
9B		16:02	X	X					X			X				Rush Services (48hr), (24hr), or (12)
9C		16:04	X	X					X			X				Rush Services (48hr), (24hr), or (12)
9D		16:06	X	X					X			X				Rush Services (48hr), (24hr), or (12)

Relinquished by: Jeff Potvin Date: 5-2-95 Time: 12:00

Received by: [Signature] Date: 5-5-95 Time: 11:00