

ALCO  
HAZMAT

94 MAY 10 AM 9:08



GENERAL SERVICES ADMINISTRATION  
Field Office, Alameda  
LAB SAMPLE ANALYSIS  
Appendix E

Prepared by Tim K. Smith, TKS  
May, 1994

CLIENT NAME: **TKS CONSULTING**  
 ADDRESS: **P.O. BOX 1618**  
**SUTTER CR. CA. 95685**  
 PROJECT NAME: **GSA**  
 PROJECT MANAGER: **TIM SMITH** PHONE # **209-267-0903**  
 SAMPLE ID: **TIM SMITH**  
 JOB DESCRIPTION: **SOIL + WELL BORING**  
 SITE LOCATION: **ALAMEDA GSA**

CLIENT JOB NUMBER: \_\_\_\_\_  
 DESTINATION LABORATORY:  
 **CLS**  
 3249 FITZGERALD RD.  
 RANCHO CORDOVA, CA  
 95742  
 **OTHER**

ANALYSIS REQUESTED:  
 PRESERVATIVES:  
**TPH-6 + BTEX**  
**TPH-D (EXTRACTABLE)**  
**3010**  
**(AA) CD, CR, PB, ZINC**  
**413.2 O+G**  
**PCB 6270**

FIELD CONDITIONS:  
 COMPOSITE: **5 DAY T.A.T. PBR**  
**DAVE CLACK / TKS**  
 Agreement  
 SPECIAL INSTRUCTIONS: **WHERE POSSIBLE**  
**CAL LUPT DETECTION**  
**LIMITS**  
 TURN AROUND TIME: \_\_\_\_\_ NOTE / FIELD READINGS: \_\_\_\_\_

DATE	TIME	SAMPLE IDENTIFICATION	METHOD	MATRIX	CONTAINER		TPH-6 + BTEX	TPH-D (EXTRACTABLE)	3010	(AA) CD, CR, PB, ZINC	413.2 O+G	PCB 6270	TURN AROUND TIME				NOTE / FIELD READINGS
					NO	TYPE							24 HOURS	48 HOURS	1 WEEK	2 WEEKS	
1/6/94	0925	GSA B1-5	DRILL	SOIL	1	Dr. Tube	X	X	X	X	X	X				X	MUD ODOR
	0950	GSA B1-10.5				"	X	X	X	X	X	X					MUD ODOR
	1015	GSA B1-14.5				"	X	X	X	X	X	X					
	1230	GSA B2-8.5				"	X	X	X	X	X	X					MUD-STV. ODOR
	1345	GSA B3-10.5				"	X										
	<del>1410</del>						X										
	1445	GSA B4-5				"	X										
	1510	GSA B4-10.5				"	X										
	1550	GSA B5-5				"	X										
	1614	GSA B5-10.5				"	X										
	0840	GSA B6-5				"	X	X	X	X	X	X					HEAVY OIL
	0915	GSA B6-10.5				"	X	X	X	X	X	X					W.K. ODOR
	0945	GSA B6-14				"	X	X	X	X	X	X					

SUSPECTED CONSTITUENTS: \_\_\_\_\_ SAMPLE RETENTION TIME: \_\_\_\_\_ PRESERVATIVES: (1) HCL (2) HNO3 (3) = COLD (4)

RELINQUISHED BY (SIGN): **[Signature]** PRINT NAME / COMPANY: **TIM SMITH / TKS CONSULTING** DATE / TIME: **2/7/94 1441**  
 REC'D BY (SIGN): \_\_\_\_\_ PRINT NAME / COMPANY: \_\_\_\_\_

REC'D AT LAB BY: **[Signature]** DATE / TIME: **1-7-94 1441** CONDITIONS / COMMENTS: \_\_\_\_\_

SHIPPED VIA:  FED X  UPS  OTHER \_\_\_\_\_ AIR BILL #: \_\_\_\_\_

LAB

# California Laboratory Services

TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

01/18/94

Attention: Tim Smith

Reference: Analytical Results

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Project Name: GSA  
Project No.:  
Date Received: 01/07/94  
Chain Of Custody: 10203

CLS ID No.: M3512  
CLS Job No.: 793512

The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
7	5 Days	Metals Analyses
7	5 Days	Halogenated Volatiles by EPA Method 8010
7	5 Days	TPH Diesel by DHS Method - M8015 (soil)
12	5 Days	TPH Gasoline and BTXE (soil)
7	5 Days	Total Recoverable Oil and Grease

Although a number of samples were found to contain compounds in the retention time range generally associated with diesel fuel, the chromatograms for these samples were not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentrations are based on diesel #2 calibration.

These samples were received by California Laboratory Services in a chilled, intact state and accompanied by a valid chain of custody document.

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

Sincerely,

George Hampton  
Laboratory Director

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Digested: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/13/94  
Client ID No.: GSA B1-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-1A  
Batch No.: M940110C  
Matrix: SOIL

Sample: GSA B1-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	10	5.0	6010
Ni (Nickel)	7440-02-0	9.0	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	21	5.0	6010

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

## Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Digested: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/13/94  
Client ID No.: GSA B1-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-2A  
Batch No.: M940110C  
Matrix: SOIL

### Sample: GSA B1-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	33	5.0	6010
Ni (Nickel)	7440-02-0	32	5.0	6010
Pb (Lead)	7439-92-1	8.7	5.0	6010
Zn (Zinc)	7440-66-6	58	5.0	6010

ND = Not detected at or above indicated Reporting Limit

Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

## Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Digested: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/13/94  
Client ID No.: GSA B1-14.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-3A  
Batch No.: M940110C  
Matrix: SOIL

### Sample: GSA B1-14.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	36	5.0	6010
Ni (Nickel)	7440-02-0	32	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	38	5.0	6010

ND = Not detected at or above indicated Reporting Limit  
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# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Digested: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/13/94  
Client ID No.: GSA B2-8.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-4A  
Batch No.: M940110C  
Matrix: SOIL

Sample: GSA B2-8.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	15	5.0	6010
Ni (Nickel)	7440-02-0	11	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	14	5.0	6010

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# California Laboratory Services

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P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Digested: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/13/94  
Client ID No.: GSA B6-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-10A  
Batch No.: M940110C  
Matrix: SOIL

Sample: GSA B6-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	14	5.0	6010
Ni (Nickel)	7440-02-0	8.5	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	85	5.0	6010

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Digested: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/13/94  
Client ID No.: GSA B6-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-11A  
Batch No.: M940110C  
Matrix: SOIL

Sample: GSA B6-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	25	5.0	6010
Ni (Nickel)	7440-02-0	21	5.0	6010
Pb (Lead)	7439-92-1	17	5.0	6010
Zn (Zinc)	7440-66-6	80	5.0	6010

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Digested: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/13/94  
Client ID No.: GSA B6-14

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-12A  
Batch No.: M940110C  
Matrix: SOIL

Sample: GSA B6-14

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	29	5.0	6010
Ni (Nickel)	7440-02-0	28	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	22	5.0	6010

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Digested: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/13/94

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: M940110C  
Matrix: SOIL

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	ND	5.0	6010
Ni (Nickel)	7440-02-0	ND	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	ND	5.0	6010

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TRS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512  
 Batch No.: M940110C  
 Matrix: SOIL

Date Digested: 01/10/94  
 Date Analyzed: 01/10/94  
 Date Reported: 01/13/94

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Cd (Cadmium)	7440-43-9	10	94
Cr (Chromium)	7440-47-3	40	93
Ni (Nickel)	7440-02-0	100	93
Pb (Lead)	7439-92-1	100	94
Zn (Zinc)	7440-66-6	100	84

### MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Cd (Cadmium)	7440-43-9	10	98
Cr (Chromium)	7440-47-3	40	96
Ni (Nickel)	7440-02-0	100	97
Pb (Lead)	7439-92-1	100	96
Zn (Zinc)	7440-66-6	100	85

### RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cd (Cadmium)	7440-43-9	4
Cr (Chromium)	7440-47-3	3
Ni (Nickel)	7440-02-0	4
Pb (Lead)	7439-92-1	2
Zn (Zinc)	7440-66-6	1

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting**  
P.O. Box 1518  
Sutter Creek, CA 95685

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**Date Sampled: 01/06/94**  
**Date Received: 01/07/94**  
**Date Extracted: 01/10/94**  
**Date Analyzed: 01/10/94**  
**Date Reported: 01/18/94**  
**Client ID No.: GSA B1-5**

**CLS Contact: George Hampton**  
**Job No.: 793512**  
**COC Log No.: 10203**  
**CLS ID No.: M3512-1A**  
**Batch No.: 12853**  
**Matrix: SOIL**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	83
<b>Sample: GSA B1-5</b>			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	5
2-Chloroethyl vinyl ether	110-75-8	ND	5
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	5
Dibromochloromethane	124-48-1	ND	5
1,2-Dichlorobenzene	95-50-1	ND	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
1,2-Dichloroethene, total	540-59-0	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene chloride	75-09-2	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Trichlorofluoromethane	75-69-4	ND	5
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5
Vinyl chloride	75-01-4	ND	5

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: M940110C  
Matrix: SOIL

Date Reported: 01/13/94

## LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Cd (Cadmium)	7440-43-9	10	101
Cr (Chromium)	7440-47-3	40	96
Ni (Nickel)	7440-02-0	100	102
Pb (Lead)	7439-92-1	100	103
Zn (Zinc)	7440-66-6	100	97

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-2A  
Batch No.: 12853  
Matrix: SOIL**

**Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/18/94  
Client ID No.: GSA B1-10.5**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	93

**Sample: GSA B1-10.5**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	5
2-Chloroethyl vinyl ether	110-75-8	ND	5
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	5
Dibromochloromethane	124-48-1	ND	5
1,2-Dichlorobenzene	95-50-1	ND	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
1,2-Dichloroethene, total	540-59-0	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene chloride	75-09-2	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Trichlorofluoromethane	75-69-4	ND	5
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5
Vinyl chloride	75-01-4	ND	5

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1 0000 unless otherwise indicated in parenthesis



# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-3A  
Batch No.: 12853  
Matrix: SOIL**

**Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/18/94  
Client ID No.: GSA B1-14.5**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	73

**Sample: GSA B1-14.5**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	5
2-Chloroethyl vinyl ether	110-75-8	ND	5
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	5
Dibromochloromethane	124-48-1	ND	5
1,2-Dichlorobenzene	95-50-1	ND	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
1,2-Dichloroethene, total	540-59-0	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene chloride	75-09-2	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Trichlorofluoromethane	75-69-4	ND	5
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5
Vinyl chloride	75-01-4	ND	5

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting**  
P.O. Box 1618  
Sutter Creek, CA 95685

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209) 267-0903**

**Project: GSA**

**Date Sampled: 01/06/94**  
**Date Received: 01/07/94**  
**Date Extracted: 01/10/94**  
**Date Analyzed: 01/10/94**  
**Date Reported: 01/18/94**  
**Client ID No.: GSA B2-8.5**

**CLS Contact: George Hampton**  
**Job No.: 793512**  
**COC Log No.: 10203**  
**CLS ID No.: M3512-4A**  
**Batch No.: 12853**  
**Matrix: SOIL**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	75

**Sample: GSA B2-8.5**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	5
2-Chloroethyl vinyl ether	110-75-8	ND	5
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	5
Dibromochloromethane	124-48-1	ND	5
1,2-Dichlorobenzene	95-50-1	ND	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
1,2-Dichloroethene, total	540-59-0	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene chloride	75-09-2	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	7	5
Trichlorofluoromethane	75-69-4	ND	5
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5
Vinyl chloride	75-01-4	ND	5

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-10A  
Batch No.: 12853  
Matrix: SOIL**

**Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/18/94  
Client ID No.: GSA B6-5**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	93

**Sample: GSA B6-5**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	5
2-Chloroethyl vinyl ether	110-75-8	ND	5
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	5
Dibromochloromethane	124-48-1	ND	5
1,2-Dichlorobenzene	95-50-1	ND	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
1,2-Dichloroethene, total	540-59-0	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene chloride	75-09-2	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Trichlorofluoromethane	75-69-4	ND	5
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5
Vinyl chloride	75-01-4	ND	5

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting**  
P.O. Box 1618  
Sutter Creek, CA 95685

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793512**  
**COC Log No.: 10203**  
**CLS ID No.: M3512-11A**  
**Batch No.: 12853**  
**Matrix: SOIL**

**Date Sampled: 01/06/94**  
**Date Received: 01/07/94**  
**Date Extracted: 01/10/94**  
**Date Analyzed: 01/10/94**  
**Date Reported: 01/18/94**  
**Client ID No.: GSA B6-10.5**

### SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	96
<b>Sample: GSA B6-10.5</b>			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	5
2-Chloroethyl vinyl ether	110-75-8	ND	5
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	5
Dibromochloromethane	124-48-1	ND	5
1,2-Dichlorobenzene	95-50-1	ND	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
1,2-Dichloroethene, total	540-59-0	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene chloride	75-09-2	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Trichlorofluoromethane	75-69-4	ND	5
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5
Vinyl chloride	75-01-4	ND	5

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/18/94  
Client ID No.: GSA B6-14

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-12A  
Batch No.: 12853  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	91

Sample: GSA B6-14

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	5
2-Chloroethyl vinyl ether	110-75-8	ND	5
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	5
Dibromochloromethane	124-48-1	ND	5
1,2-Dichlorobenzene	95-50-1	ND	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
1,2-Dichloroethene, total	540-59-0	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene chloride	75-09-2	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Trichlorofluoromethane	75-69-4	ND	5
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5
Vinyl chloride	75-01-4	ND	5

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/18/94

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12853  
Matrix: SOIL

### MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	96

### METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
Carbon tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	5
2-Chloroethyl vinyl ether	110-75-8	ND	5
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	5
Dibromochloromethane	124-48-1	ND	5
1,2-Dichlorobenzene	95-50-1	ND	5
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
1,2-Dichloroethene, total	540-59-0	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene chloride	75-09-2	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Trichlorofluoromethane	75-69-4	ND	5
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5
Vinyl chloride	75-01-4	ND	5

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1 0000 unless otherwise indicated in parentheses

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12853  
Matrix: SOIL**

**Date Extracted: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/18/94**

### MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/kg)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	112

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/kg)	MS Recovery (percent)
Chlorobenzene	108-90-7	100	97
1,1-Dichloroethene	75-35-4	100	93
Trichloroethene	79-01-6	100	108

### MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/kg)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	113

### MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/kg)	MSD Recovery (percent)
Chlorobenzene	108-90-7	100	97
1,1-Dichloroethene	75-35-4	100	95
Trichloroethene	79-01-6	100	104

### RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	0
1,1-Dichloroethene	75-35-4	2
Trichloroethene	79-01-6	4

# California Laboratory Services

Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/10/94  
Date Analyzed: 01/10/94  
Date Reported: 01/18/94

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12853  
Matrix: SOIL

## LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	94

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
Chlorobenzene	108-90-7	100	96
1,1-Dichloroethene	75-35-4	100	101
Trichloroethene	79-01-6	100	72



# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94  
Client ID No.: GSA B1-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-1A  
Batch No.: 12854  
Matrix: SOIL

Sample: GSA B1-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	1.3	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-2A  
Batch No.: 12854  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94  
Client ID No.: GSA B1-10.5

Sample: GSA B1-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	12	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94  
Client ID No.: GSA B1-14.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-3A  
Batch No.: 12854  
Matrix: SOIL

Sample: GSA B1-14.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	1.1	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94  
Client ID No.: GSA B2-8.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-4A  
Batch No.: 12854  
Matrix: SOIL

Sample: GSA B2-8.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	57	20

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94  
Client ID No.: GSA B6-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-10A  
Batch No.: 12854  
Matrix: SOIL

Sample: GSA B6-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	5100	1000

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-11A  
Batch No.: 12854  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94  
Client ID No.: GSA B6-10.5

Sample: GSA B6-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	17	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94  
Client ID No.: GSA B6-14

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-12A  
Batch No.: 12854  
Matrix: SOIL

Sample: GSA B6-14

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	18	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TRS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12854  
Matrix: SOIL

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.



# California Laboratory Services

**Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12854  
Matrix: SOIL**

**Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94**

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Diesel	N/A	10	82

### MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Diesel	N/A	10	78

### RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Diesel	N/A	5

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12854  
Matrix: SOIL

Date Extracted: 01/10/94  
Date Analyzed: 01/17/94  
Date Reported: 01/18/94

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel	N/A	10	82

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B1-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-1A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B1-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B1-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-2A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B1-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B1-14.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-3A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B1-14.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B2-8.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-4A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B2-8.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	1.5	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B3-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-5A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B3-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-6A  
Batch No.: 12852  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B4-5

Sample: GSA B4-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.



# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B4-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-7A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B4-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B5-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-8A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B5-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B5-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-9A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B5-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B6-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-10A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B6-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B6-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-11A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B6-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B6-14

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-12A  
Batch No.: 12852  
Matrix: SOIL

Sample: GSA B6-14

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12852  
Matrix: SOIL

Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B1-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-1A  
Batch No.: 12852  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	101

Sample: GSA B1-5

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.



# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B1-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-2A  
Batch No.: 12852  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	97

Sample: GSA B1-10.5

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B1-14.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-3A  
Batch No.: 12852  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	97

Sample: GSA B1-14.5

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B2-8.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-4A  
Batch No.: 12852  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	100

**Sample: GSA B2-8.5**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	20	5
Ethylbenzene	100-41-4	11	5
Xylenes, total	1330-20-7	75	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: **BTEX, EPA Method 8020**  
**Purge and Trap, EPA Method 5030**

Client: **TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

Project No.:  
 Contact: **Tim Smith**  
 Phone: **(209)267-0903**

Project: **GSA**

Date Sampled: **01/06/94**  
 Date Received: **01/07/94**  
 Date Extracted: **01/08/94**  
 Date Analyzed: **01/08/94**  
 Date Reported: **01/10/94**  
 Client ID No.: **GSA B3-10.5**

CLS Contact: **George Hampton**  
 Job No.: **793512**  
 COC Log No.: **10203**  
 CLS ID No.: **M3512-5A**  
 Batch No.: **12852**  
 Matrix: **SOIL**

### SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	101
<b>Sample: GSA B3-10.5</b>			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: **BTEX, EPA Method 8020**  
**Purge and Trap, EPA Method 5030**

Client: **TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

Project No.:  
 Contact: **Tim Smith**  
 Phone: **(209)267-0903**

Project: **GSA**

Date Sampled: **01/06/94**  
 Date Received: **01/07/94**  
 Date Extracted: **01/08/94**  
 Date Analyzed: **01/08/94**  
 Date Reported: **01/10/94**  
 Client ID No.: **GSA B4-5**

CLS Contact: **George Hampton**  
 Job No.: **793512**  
 COC Log No.: **10203**  
 CLS ID No.: **M3512-6A**  
 Batch No.: **12852**  
 Matrix: **SOIL**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	100

**Sample: GSA B4-5**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B4-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-7A  
Batch No.: 12852  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	99

Sample: GSA B4-10.5

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-8A  
Batch No.: 12852  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B5-5

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	98

*Sample: GSA B5-5*

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B5-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-9A  
Batch No.: 12852  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	98

## Sample: GSA B5-10.5

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.



# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-10A  
Batch No.: 12852  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B6-5

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	5000	115
<i>Sample: GSA B6-5</i>			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	50
Toluene	108-88-3	ND	50
Ethylbenzene	100-41-4	ND	50
Xylenes, total	1330-20-7	ND	100

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: **BTEX, EPA Method 8020**  
**Purge and Trap, EPA Method 5030**

Client: **TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

Project No.:  
 Contact: **Tim Smith**  
 Phone: **(209)267-0903**

Project: **GSA**

Date Sampled: **01/06/94**  
 Date Received: **01/07/94**  
 Date Extracted: **01/08/94**  
 Date Analyzed: **01/08/94**  
 Date Reported: **01/10/94**  
 Client ID No.: **GSA B6-10.5**

CLS Contact: **George Hampton**  
 Job No.: **793512**  
 COC Log No.: **10203**  
 CLS ID No.: **M3512-11A**  
 Batch No.: **12852**  
 Matrix: **SOIL**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	97

**Sample: GSA B6-10.5**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94  
Client ID No.: GSA B6-14

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-12A  
Batch No.: 12852  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	98

**Sample: GSA B6-14**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12852  
Matrix: SOIL

## MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	120

## METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: **BTEX, EPA Method 8020**  
**Purge and Trap, EPA Method 5030**

Client: **TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

Project No.:  
 Contact: **Tim Smith**  
 Phone: **(209) 267-0903**

Project: **GSA**

CLS Contact: **George Hampton**  
 Job No.: **793512**  
 COC Log No.: **10203**  
 CLS ID No.: **M3512**  
 Batch No.: **12852**  
 Matrix: **SOIL**

Date Extracted: **01/08/94**  
 Date Analyzed: **01/08/94**  
 Date Reported: **01/10/94**

**MS SURROGATE**

Analyte	CAS No.	MS Surr. Conc. (ug/kg)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	118

**MATRIX SPIKE**

Analyte	CAS No.	MS Conc. (ug/kg)	MS Recovery (percent)
Benzene	71-43-2	100	109
Toluene	108-88-3	100	107
Ethylbenzene	100-41-4	100	107
Xylenes, total	1330-20-7	300	102

**MSD SURROGATE**

Analyte	CAS No.	Surr. Conc. (ug/kg)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	118

**MATRIX SPIKE DUPLICATE**

Analyte	CAS No.	MSD Conc. (ug/kg)	MSD Recovery (percent)
Benzene	71-43-2	100	111
Toluene	108-88-3	100	108
Ethylbenzene	100-41-4	100	108
Xylenes, total	1330-20-7	300	103

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12852  
Matrix: SOIL

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Benzene	71-43-2	2
Toluene	108-88-3	1
Ethylbenzene	100-41-4	1
Xylenes, total	1330-20-7	1

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/08/94  
Date Analyzed: 01/08/94  
Date Reported: 01/10/94

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12852  
Matrix: SOIL

## LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	115

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
Benzene	71-43-2	100	104
Toluene	108-88-3	100	103
Ethylbenzene	100-41-4	100	103
Xylenes, total	1330-20-7	300	100

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/07/94  
Date Analyzed: 01/10/94  
Date Reported: 01/12/94  
Client ID No.: GSA B1-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-1A  
Batch No.: 12846  
Matrix: SOIL

Sample: GSA B1-5

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Oil & Grease	N/A	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.



# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-2A  
Batch No.: 12846  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/07/94  
Date Analyzed: 01/10/94  
Date Reported: 01/12/94  
Client ID No.: GSA B1-10.5

Sample: GSA B1-10.5

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Oil & Grease	N/A	100	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-3A  
Batch No.: 12846  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/07/94  
Date Analyzed: 01/10/94  
Date Reported: 01/12/94  
Client ID No.: GSA B1-14.5

Sample: GSA B1-14.5

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Oil & Grease	N/A	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/07/94  
Date Analyzed: 01/10/94  
Date Reported: 01/12/94  
Client ID No.: GSA B2-8.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-4A  
Batch No.: 12846  
Matrix: SOIL

Sample: GSA B2-8.5

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Oil & Grease	N/A	120	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/07/94  
Date Analyzed: 01/10/94  
Date Reported: 01/12/94  
Client ID No.: GSA B6-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-10A  
Batch No.: 12846  
Matrix: SOIL

Sample: GSA B6-5

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Oil & Grease	N/A	19000(100)	1000

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/07/94  
Date Analyzed: 01/10/94  
Date Reported: 01/12/94  
Client ID No.: GSA B6-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-11A  
Batch No.: 12846  
Matrix: SOIL

Sample: GSA B6-10.5

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Oil & Grease	N/A	30	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512-12A  
Batch No.: 12846  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/07/94  
Date Analyzed: 01/10/94  
Date Reported: 01/12/94  
Client ID No.: GSA B6-14

Sample: GSA B6-14

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Oil & Grease	N/A	15	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12846  
Matrix: SOIL

Date Extracted: 01/07/94  
Date Analyzed: 01/10/94  
Date Reported: 01/12/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
Oil & Grease	N/A	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

**Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker DOHS LUFT Method**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512  
Batch No.: 12846  
Matrix: SOIL**

**Date Extracted: 01/07/94  
Date Analyzed: 01/10/94  
Date Reported: 01/12/94**

**LAB CONTROL SAMPLE**

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Oil & Grease	N/A	50	87

**LAB CONTROL SAMPLE DUPLICATE**

Analyte	CAS No.	LCS Conc. (mg/L)	LCSD Recovery (percent)
Oil & Grease	N/A	50	88

**LCS RPD**

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Oil & Grease	N/A	1





CLIENT NAME: TKS CONSULTING  
 ADDRESS: 11111111  
 CITY/STATE/ZIP: 11111 CA 95000  
 PROJECT NAME: GSA  
 PROJECT MANAGER: Jim Smith PHONE #: 916-267-1111  
 SAMPLED BY: Jim Smith  
 JOB DESCRIPTION: 1. WIL. ISHANT  
 SITE LOCATION: 11111111 CA

CLIENT JOB NUMBER: \_\_\_\_\_  
 DESTINATION LABORATORY:  
 **CLS**  
 3249 FITZGERALD RD.  
 RANCHO CORDOVA, CA 95742  
 **OTHER**

**ANALYSIS REQUESTED**

**PRESERVATIVES**

TPH-6 + DTX  
 TPH-D (EXTENSIBLE)  
 9110  
 (A) C.D. CR. PL. ZUM.  
 413.2 Q+G  
 8770 P  
 P.C.B. P.N.A. PCB CRESO.  
 by Pharm 1/12/94

**FIELD CONDITIONS**

COMPOSITE: 5 DAY Z.M.T. PER  
DATE 1/7/94

SPECIAL INSTRUCTIONS: CAL 2...

**TURN AROUND TIME**    **NOTE / FIELD READINGS**

24 HOURS    48 HOURS    1 WEEK    2 WEEKS

DATE	TIME	SAMPLE IDENTIFICATION	METHOD	MATRIX	CONTAINER		PRESERVATIVES	TPH-6 + DTX	TPH-D (EXTENSIBLE)	9110	(A) C.D. CR. PL. ZUM.	413.2 Q+G	8770 P	P.C.B. P.N.A. PCB CRESO.	by Pharm 1/12/94	24 HOURS	48 HOURS	1 WEEK	2 WEEKS	NOTE / FIELD READINGS	
					NO.	TYPE															
1/6/94	0925	GSA B1-5	PC	S.S.	1	B. Tube	X	X	X	X	X	X	X	X							
	0950	GSA B1-10.5					X	X	X	X	X	X	X	X							
	1015	GSA B1-14.5					X	X	X	X	X	X	X	X							
	1230	GSA B2-8.5					X	X	X	X	X	X	X	X							
	1345	GSA B3-10.5					X	X	X	X	X	X	X	X							
	<del>1400</del>	<del>~~~~~</del>					X	X	X	X	X	X	X	X							
	1445	GSA B4-5					X	X	X	X	X	X	X	X							
	1510	GSA B4-10.5					X	X	X	X	X	X	X	X							
	1550	GSA B5-5					X	X	X	X	X	X	X	X							
	1614	GSA B5-10.5					X	X	X	X	X	X	X	X							
	0840	GSA B6-5					X	X	X	X	X	X	X	X							HFAL, SL
	0915	GSA B1-10.5					X	X	X	X	X	X	X	X							W. UDR
	0945	GSA B6-14					X	X	X	X	X	X	X	X							

SUSPECTED CONSTITUENTS: \_\_\_\_\_ SAMPLE RETENTION TIME: \_\_\_\_\_ PRESERVATIVES: (1) HCL (2) HNO3 (3) = COLD (4)

REC'D BY (SIGN): Tom Smith    PRINT NAME: \_\_\_\_\_ COMPANY: \_\_\_\_\_

REC'D AT LAB BY: Susan Burns    DATE / TIME: 1-7-94 1441    CONDITIONS / COMMENTS: \_\_\_\_\_

SUBMITTER:  FED X     UPS     OTHER    AIR BILL # \_\_\_\_\_

# California Laboratory Services

TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

01/19/94

Attention: Tim Smith

Reference: Analytical Results

---

Project Name: GSA  
Project No.:  
Date Received: 01/07/94  
Chain Of Custody: 10203

CLS ID No.: M3512A  
CLS Job No.: 793512

The following analyses were performed on the above referenced project:

No. of Samples	Turnaround Time	Analysis Description
8	5 Days	PCB's in Soil, Sludge or Other Oil
8	5 Days	Semivolatile Organic Compounds by GC/MS


Method 8270 surrogate standard recovery data could not be generated for sample "GSA B6-5" due to the presence of hydrocarbon in this sample.

The analyses requested included creosote. This is a complex mixture of hydrocarbons derived from coal tar or wood tar. Compounds contained in these mixtures include the Poly Nuclear Aromatics (PNA's) and Methyl Phenols (Cresols). Both of these groups of compounds are determined in the EPA 8270 analysis along with the other wood preservative, Pentachlorophenol (PCP). If PNA's or Cresols are found to be present, they may have been derived from creosote although there are many other sources of PNA's and Cresols.

These samples were received by California Laboratory Services in a chilled, intact state and accompanied by a valid chain of custody document.

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

Sincerely,

  
George Hampton  
Laboratory Director

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: GSA B1-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-1A  
Batch No.: 12878  
Matrix: SOIL

Sample: GSA B1-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-2A  
Batch No.: 12878  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: GSA B1-10.5

Sample: GSA B1-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: GSA B1-14.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-3A  
Batch No.: 12878  
Matrix: SOIL

Sample: GSA B1-14.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-4A  
Batch No.: 12878  
Matrix: SOIL

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: GSA B2-8.5

Sample: GSA B2-8.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: GSA B3-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-5A  
Batch No.: 12878  
Matrix: SOIL

Sample: GSA B3-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: GSA B6-5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-10A  
Batch No.: 12878  
Matrix: SOIL

Sample: GSA B6-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.



# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: GSA B6-10.5

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-11A  
Batch No.: 12878  
Matrix: SOIL

Sample: GSA B6-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: GSA B6-14

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-12A  
Batch No.: 12878  
Matrix: SOIL

Sample: GSA B6-14

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A  
Batch No.: 12878  
Matrix: SOIL

Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94

CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A  
Batch No.: 12878  
Matrix: SOIL

## MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Aroclor 1260	11096-82-5	5.0	74

## MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Aroclor 1260	11096-82-5	5.0	82

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Aroclor 1260	11096-82-5	10

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

Date Sampled: 01/06/94  
 Date Received: 01/07/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94  
 Client ID No.: GSA B1-5

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A-1A  
 Batch No.: 12877  
 Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	86
2-Fluorophenol	367-12-4	10	66
2,4,6-Tribromophenol	118-79-6	10	79
Nitrobenzene-d5	N/A	10	75
2-Fluorobiphenyl	321-60-8	10	62
Terphenyl-d14	N/A	10	137

NR= Not Reportable; See cover letter for explanation.

## Sample: GSA B1-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1
Acenaphthylene	208-96-8	ND	1
Anthracene	120-12-7	ND	1
Benzo (a) anthracene	56-55-3	ND	1
Benzo (b) fluoranthene	205-99-2	ND	1
Benzo (k) fluoranthene	207-08-9	ND	1
Benzo (g, h, i) perylene	191-24-2	ND	1
Benzo (a) pyrene	50-32-8	ND	1
Benzyl alcohol	100-51-6	ND	2
Bis (2-chloroethoxy) methane	111-91-1	ND	1
Bis (2-chloroethyl) ether	111-44-4	ND	1
Bis (2-chloroisopropyl) ether	108-60-1	ND	1
Bis (2-ethylhexyl) phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	1
Butylbenzyl phthalate	85-68-7	ND	1
4-Chloroaniline	106-47-8	ND	2
2-Chloronaphthalene	91-58-7	ND	1
4-Chlorophenyl phenyl ether	7005-72-3	ND	1
Chrysene	218-01-9	ND	1
Dibenzo (a, h) anthracene	53-70-3	ND	1
Dibenzofuran	132-64-9	ND	1
Di-n-butylphthalate	84-74-2	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1
1,3-Dichlorobenzene	541-73-1	NC	1
1,4-Dichlorobenzene	106-46-7	ND	1
3,3'-Dichlorobenzidine	91-94-1	ND	2
Diethylphthalate	84-66-2	ND	1
Dimethylphthalate	131-11-3	ND	1

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

**Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270**  
**Sonication, EPA Method 3550**

**Client: TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793512**  
**COC Log No.: 10203**  
**CLS ID No.: M3512A-1A**  
**Batch No.: 12877**  
**Matrix: SOIL**

**Date Sampled: 01/06/94**  
**Date Received: 01/07/94**  
**Date Extracted: 01/12/93**  
**Date Analyzed: 01/15/93**  
**Date Reported: 01/19/94**  
**Client ID No.: GSA B1-5**

**Sample: GSA B1-5(cont.)**

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	1
2,6-Dinitrotoluene	606-20-2	ND	1
Di-n-octylphthalate	117-84-0	ND	1
Fluoranthene	206-44-0	ND	1
Fluorene	86-73-7	ND	1
Hexachlorobenzene	118-74-1	ND	1
Hexachlorobutadiene	87-68-3	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	1
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1
Isophorone	78-59-1	ND	1
2-Methylnaphthalene	91-57-6	ND	1
Naphthalene	91-20-3	ND	1
2-Nitroaniline	88-74-4	ND	5
3-Nitroaniline	99-09-2	ND	5
4-Nitroaniline	100-01-6	ND	5
Nitrobenzene	98-95-3	ND	1
N-Nitrosodiphenylamine	86-30-6	ND	1
N-Nitroso-di-n-propylamine	621-64-7	ND	1
Phenanthrene	85-01-8	ND	1
Pyrene	129-00-0	ND	1
1,2,4-Trichlorobenzene	120-82-1	ND	1
Benzoic Acid	65-85-0	ND	5
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	1
2,4-Dichlorophenol	120-83-2	ND	1
2,4-Dimethylphenol	105-67-9	ND	1
2,4-Dinitrophenol	51-28-5	ND	5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5
2-Methylphenol	95-48-7	ND	1
3/4-Methylphenol	N/A	ND	1
2-Nitrophenol	88-75-5	ND	1
4-Nitrophenol	100-02-7	ND	5
Pentachlorophenol	87-86-5	ND	5
Phenol	108-95-2	ND	1
2,4,5-Trichlorophenol	95-95-4	ND	1
2,4,6-Trichlorophenol	88-06-2	ND	1

ND - Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A-2A  
 Batch No.: 12877  
 Matrix: SOIL

Date Sampled: 01/06/94  
 Date Received: 01/07/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94  
 Client ID No.: GSA B1-10.5

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	90
2-Fluorophenol	367-12-4	10	69
2,4,6-Tribromophenol	118-79-6	10	76
Nitrobenzene-d5	N/A	10	75
2-Fluorobiphenyl	321-60-8	10	65
Terphenyl-d14	N/A	10	123

NR= Not Reportable; See cover letter for explanation.

## Sample: GSA B1-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1
Acenaphthylene	208-96-8	ND	1
Anthracene	120-12-7	ND	1
Benzo(a)anthracene	56-55-3	ND	1
Benzo(b)fluoranthene	205-99-2	ND	1
Benzo(k)fluoranthene	207-08-9	ND	1
Benzo(g,h,i)perylene	191-24-2	ND	1
Benzo(a)pyrene	50-32-8	ND	1
Benzyl alcohol	100-51-6	ND	2
Bis(2-chloroethoxy)methane	111-91-1	ND	1
Bis(2-chloroethyl)ether	111-44-4	ND	1
Bis(2-chloroisopropyl)ether	108-60-1	ND	1
Bis(2-ethylhexyl)phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	1
Butylbenzyl phthalate	85-68-7	ND	1
4-Chloroaniline	106-47-8	ND	2
2-Chloronaphthalene	91-58-7	ND	1
4-Chlorophenyl phenyl ether	7005-72-3	ND	1
Chrysene	218-01-9	ND	1
Dibenzo(a,h)anthracene	53-70-2	ND	1
Dibenzofuran	132-64-3	ND	1
Di-n-butylphthalate	84-74-2	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1
1,3-Dichlorobenzene	541-73-1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1
3,3'-Dichlorobenzidine	91-94-1	ND	2
Diethylphthalate	84-66-2	ND	1
Dimethylphthalate	131-11-3	ND	1

ND - Not detected at or above indicated Reporting Limit  
 Dilution Factor - 1,0000 unless otherwise indicated in parenthesis

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A-2A  
 Batch No.: 12877  
 Matrix: SOIL

Date Sampled: 01/06/94  
 Date Received: 01/07/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94  
 Client ID No.: GSA B1-10.5

Sample: GSA B1-10.5 (cont.)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	1
2,6-Dinitrotoluene	606-20-2	ND	1
Di-n-octylphthalate	117-84-0	ND	1
Fluoranthene	206-44-0	ND	1
Fluorene	86-73-7	ND	1
Hexachlorobenzene	118-74-1	ND	1
Hexachlorobutadiene	87-68-3	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	1
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1
Isophorone	78-59-1	ND	1
2-Methylnaphthalene	91-57-6	ND	1
Naphthalene	91-20-3	ND	1
2-Nitroaniline	88-74-4	ND	5
3-Nitroaniline	99-09-2	ND	5
4-Nitroaniline	100-01-6	ND	5
Nitrobenzene	98-95-3	ND	1
N-Nitrosodiphenylamine	86-30-6	ND	1
N-Nitroso-di-n-propylamine	621-64-7	ND	1
Phenanthrene	85-01-8	ND	1
Pyrene	129-00-0	ND	1
1,2,4-Trichlorobenzene	120-82-1	ND	1
Benzoic Acid	65-85-0	ND	5
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	1
2,4-Dichlorophenol	120-83-2	ND	1
2,4-Dimethylphenol	105-67-9	ND	1
2,4-Dinitrophenol	51-28-5	ND	5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5
2-Methylphenol	95-48-7	ND	1
3/4-Methylphenol	N/A	ND	1
2-Nitrophenol	88-75-5	ND	1
4-Nitrophenol	100-02-7	ND	5
Pentachlorophenol	87-86-5	ND	5
Phenol	108-95-2	ND	1
2,4,5-Trichlorophenol	95-95-4	ND	1
2,4,6-Trichlorophenol	88-06-2	ND	1

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.



# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A-3A  
 Batch No.: 12877  
 Matrix: SOIL

Date Sampled: 01/06/94  
 Date Received: 01/07/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94  
 Client ID No.: GSA B1-14.5

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	94
2-Fluorophenol	367-12-4	10	78
2,4,6-Tribromophenol	118-79-6	10	72
Nitrobenzene-d5	N/A	10	82
2-Fluorobiphenyl	321-60-8	10	72
Terphenyl-d14	N/A	10	137

NR= Not Reportable; See cover letter for explanation.

## Sample: GSA B1-14.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1
Acenaphthylene	208-96-8	ND	1
Anthracene	120-12-7	ND	1
Benzo (a) anthracene	56-55-3	ND	1
Benzo (b) fluoranthene	205-99-2	ND	1
Benzo (k) fluoranthene	207-08-9	ND	1
Benzo (g, h, i) perylene	191-24-2	ND	1
Benzo (a) pyrene	50-32-8	ND	1
Benzyl alcohol	100-51-6	ND	2
Bis (2-chloroethoxy) methane	111-91-1	ND	1
Bis (2-chloroethyl) ether	111-44-4	ND	1
Bis (2-chloroisopropyl) ether	108-60-1	ND	1
Bis (2-ethylhexyl) phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	1
Butylbenzyl phthalate	85-68-7	ND	1
4-Chloroaniline	106-47-8	ND	2
2-Chloronaphthalene	91-58-7	ND	1
4-Chlorophenyl phenyl ether	7005-72-3	ND	1
Chrysene	218-01-9	ND	1
Dibenzo (a, h) anthracene	53-70-3	ND	1
Dibenzofuran	132-64-9	ND	1
Di-n-butylphthalate	84-74-2	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1
1,3-Dichlorobenzene	541-73-1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1
3,3'-Dichlorobenzidine	91-94-1	ND	2
Diethylphthalate	84-66-2	ND	1
Diethylphthalate	131-11-3	ND	1

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1,000 unless otherwise indicated in parenthesis.

# California Laboratory Services

**Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270**  
**Sonication, EPA Method 3550**

**Client: TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793512**  
**COC Log No.: 10203**  
**CLS ID No.: M3512A-3A**  
**Batch No.: 12877**  
**Matrix: SOIL**

**Date Sampled: 01/06/94**  
**Date Received: 01/07/94**  
**Date Extracted: 01/12/93**  
**Date Analyzed: 01/15/93**  
**Date Reported: 01/19/94**  
**Client ID No.: GSA B1-14.5**

**Sample: GSA B1-14.5(cont.)**

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	1
2,6-Dinitrotoluene	606-20-2	ND	1
Di-n-octylphthalate	117-84-0	ND	1
Fluoranthene	206-44-0	ND	1
Fluorene	86-73-7	ND	1
Hexachlorobenzene	118-74-1	ND	1
Hexachlorobutadiene	87-68-3	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	1
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1
Isophorone	78-59-1	ND	1
2-Methylnaphthalene	91-57-6	ND	1
Naphthalene	91-20-3	ND	1
2-Nitroaniline	88-74-4	ND	5
3-Nitroaniline	99-09-2	ND	5
4-Nitroaniline	100-01-6	ND	5
Nitrobenzene	98-95-3	ND	1
N-Nitrosodiphenylamine	86-30-6	ND	1
N-Nitroso-di-n-propylamine	621-64-7	ND	1
Phenanthrene	85-01-8	ND	1
Pyrene	129-00-0	ND	1
1,2,4-Trichlorobenzene	120-82-1	ND	1
Benzoic Acid	65-85-0	ND	5
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	1
2,4-Dichlorophenol	120-83-2	ND	1
2,4-Dimethylphenol	105-67-9	ND	1
2,4-Dinitrophenol	51-28-5	ND	5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5
2-Methylphenol	95-48-7	ND	1
3/4-Methylphenol	N/A	ND	1
2-Nitrophenol	88-75-5	ND	1
4-Nitrophenol	100-02-7	ND	5
Pentachlorophenol	87-86-5	ND	5
Phenol	108-95-2	ND	1
2,4,5-Trichlorophenol	35-95-4	ND	1
2,4,6-Trichlorophenol	88-06-2	ND	1

ND - Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A-4A  
 Batch No.: 12877  
 Matrix: SOIL

Date Sampled: 01/06/94  
 Date Received: 01/07/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94  
 Client ID No.: GSA B2-8.5

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	93
2-Fluorophenol	367-12-4	10	77
2,4,6-Tribromophenol	118-79-6	10	84
Nitrobenzene-d5	N/A	10	80
2-Fluorobiphenyl	321-60-8	10	71
Terphenyl-d14	N/A	10	135

NR= Not Reportable; See cover letter for explanation.

## Sample: GSA B2-8.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1
Acenaphthylene	208-96-8	ND	1
Anthracene	120-12-7	ND	1
Benzo (a) anthracene	56-55-3	ND	1
Benzo (b) fluoranthene	205-99-2	ND	1
Benzo (k) fluoranthene	207-08-9	ND	1
Benzo (g, h, i) perylene	191-24-2	ND	1
Benzo (a) pyrene	50-32-8	ND	1
Benzyl alcohol	100-51-6	ND	2
Bis (2-chloroethoxy) methane	111-91-1	ND	1
Bis (2-chloroethyl) ether	111-44-4	ND	1
Bis (2-chloroisopropyl) ether	108-60-1	ND	1
Bis (2-ethylhexyl) phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	1
Butylbenzyl phthalate	85-68-7	ND	1
4-Chloroaniline	106-47-8	ND	2
2-Chloronaphthalene	91-58-7	ND	1
4-Chlorophenyl phenyl ether	7005-72-3	ND	1
Chrysene	218-01-9	ND	1
Dibenzo (a, h) anthracene	53-70-3	ND	1
Dibenzofuran	132-64-9	ND	1
Di-n-butylphthalate	84-74-2	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1
1,3-Dichlorobenzene	541-73-1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1
3,3'-Dichlorobenzidine	91-94-1	ND	2
Diethylphthalate	84-66-2	ND	1
Dimethylphthalate	131-11-3	ND	1

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

**Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
Sonication, EPA Method 3550**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903**

**Project: GSA**

**Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/93  
Date Analyzed: 01/15/93  
Date Reported: 01/19/94  
Client ID No.: GSA B2-8.5**

**CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-4A  
Batch No.: 12877  
Matrix: SOIL**

**Sample: GSA B2-8.5 (cont.)**

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	1
2,6-Dinitrotoluene	606-20-2	ND	1
Di-n-octylphthalate	117-84-0	ND	1
Fluoranthene	206-44-0	ND	1
Fluorene	86-73-7	ND	1
Hexachlorobenzene	118-74-1	ND	1
Hexachlorobutadiene	87-68-3	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	1
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1
Isophorone	78-59-1	ND	1
2-Methylnaphthalene	91-57-6	ND	1
Naphthalene	91-20-3	ND	1
2-Nitroaniline	88-74-4	ND	5
3-Nitroaniline	99-09-2	ND	5
4-Nitroaniline	100-01-6	ND	5
Nitrobenzene	98-95-3	ND	1
N-Nitrosodiphenylamine	86-30-6	ND	1
N-Nitroso-di-n-propylamine	621-64-7	ND	1
Phenanthrene	85-01-8	ND	1
Pyrene	129-00-0	ND	1
1,2,4-Trichlorobenzene	120-82-1	ND	1
Benzoic Acid	65-85-0	ND	5
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	1
2,4-Dichlorophenol	120-83-2	ND	1
2,4-Dimethylphenol	105-67-9	ND	1
2,4-Dinitrophenol	51-28-5	ND	5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5
2-Methylphenol	95-48-7	ND	1
3/4-Methylphenol	N/A	ND	1
2-Nitrophenol	88-75-5	ND	1
4-Nitrophenol	100-02-7	ND	5
Pentachlorophenol	87-86-5	ND	5
Phenol	108-95-2	ND	1
2,4,5-Trichlorophenol	95-95-4	ND	1
2,4,6-Trichlorophenol	88-06-2	ND	1

ND - Not detected at or above indicated Reporting Limit  
Dilution Factor - 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A-5A  
 Batch No.: 12877  
 Matrix: SOIL

Date Sampled: 01/06/94  
 Date Received: 01/07/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94  
 Client ID No.: GSA B3-10.5

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	93
2-Fluorophenol	367-12-4	10	68
2,4,6-Tribromophenol	118-79-6	10	88
Nitrobenzene-d5	N/A	10	78
2-Fluorobiphenyl	321-60-8	10	66
Terphenyl-d14	N/A	10	128

NR= Not Reportable; See cover letter for explanation.

## Sample: GSA B3-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1
Acenaphthylene	208-96-8	ND	1
Anthracene	120-12-7	ND	1
Benzo (a) anthracene	56-55-3	ND	1
Benzo (b) fluoranthene	205-99-2	ND	1
Benzo (k) fluoranthene	207-08-9	ND	1
Benzo (g, h, i) perylene	191-24-2	ND	1
Benzo (a) pyrene	50-32-8	ND	1
Benzyl alcohol	100-51-6	ND	2
Bis (2-chloroethoxy) methane	111-91-1	ND	1
Bis (2-chloroethyl) ether	111-44-4	ND	1
Bis (2-chloroisopropyl) ether	108-60-1	ND	1
Bis (2-ethylhexyl) phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	1
Butylbenzyl phthalate	85-68-7	ND	1
4-Chloroaniline	106-47-8	ND	2
2-Chloronaphthalene	91-58-7	ND	1
4-Chlorophenyl phenyl ether	7005-72-3	ND	1
Chrysene	218-01-9	ND	1
Dibenzo (a, h) anthracene	53-70-2	ND	1
Dibenzofuran	132-64-9	ND	1
D: -n-butylphthalate	84-74-2	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1
1,3-Dichlorobenzene	541-73-1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1
3,3'-Dichlorobenzidine	91-94-1	ND	2
Diethylphthalate	84-66-2	ND	1
Dimethylphthalate	131-11-3	ND	1

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

**Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
Sonication, EPA Method 3550**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-5A  
Batch No.: 12877  
Matrix: SOIL**

**Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/93  
Date Analyzed: 01/15/93  
Date Reported: 01/19/94  
Client ID No.: GSA B3-10.5**

**Sample: GSA B3-10.5(cont.)**

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	1
2,6-Dinitrotoluene	606-20-2	ND	1
Di-n-octylphthalate	117-84-0	ND	1
Fluoranthene	206-44-0	12	1
Fluorene	86-73-7	ND	1
Hexachlorobenzene	118-74-1	ND	1
Hexachlorobutadiene	87-68-3	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	1
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1
Isophorone	78-59-1	ND	1
2-Methylnaphthalene	91-57-6	ND	1
Naphthalene	91-20-3	ND	1
2-Nitroaniline	88-74-4	ND	5
3-Nitroaniline	99-09-2	ND	5
4-Nitroaniline	100-01-6	ND	5
Nitrobenzene	98-95-3	ND	1
N-Nitrosodiphenylamine	86-30-6	ND	1
N-Nitroso-di-n-propylamine	621-64-7	ND	1
Phenanthrene	85-01-8	ND	1
Pyrene	129-00-0	26	1
1,2,4-Trichlorobenzene	120-82-1	ND	1
Benzoic Acid	65-85-0	ND	5
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	1
2,4-Dichlorophenol	120-83-2	ND	1
2,4-Dimethylphenol	105-67-9	ND	1
2,4-Dinitrophenol	51-28-5	ND	5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5
2-Methylphenol	95-48-7	ND	1
3/4-Methylphenol	N/A	ND	1
2-Nitrophenol	88-75-5	ND	1
4-Nitrophenol	100-02-7	ND	5
Pentachlorophenol	87-86-5	ND	5
Phenol	108-95-2	ND	1
2,4,5-Trichlorophenol	95-95-4	ND	1
2,4,6-Trichlorophenol	88-06-2	ND	1

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A-10A  
 Batch No.: 12877  
 Matrix: SOIL

Date Sampled: 01/06/94  
 Date Received: 01/07/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94  
 Client ID No.: GSA B6-5

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	NR
2-Fluorophenol	367-12-4	10	NR
2,4,6-Tribromophenol	118-79-6	10	NR
Nitrobenzene-d5	N/A	10	NR
2-Fluorobiphenyl	321-60-8	10	NR
Terphenyl-d14	N/A	10	NR

NR= Not Reportable; See cover letter for explanation.

## Sample: GSA B6-5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1000
Acenaphthylene	208-96-8	ND	1000
Anthracene	120-12-7	ND	1000
Benzo (a) anthracene	56-55-3	ND	1000
Benzo (b) fluoranthene	205-99-2	ND	1000
Benzo (k) fluoranthene	207-08-9	ND	1000
Benzo (g,h,i) perylene	191-24-2	ND	1000
Benzo (a) pyrene	50-32-8	ND	1000
Benzyl alcohol	100-51-6	ND	2000
Bis (2-chloroethoxy) methane	111-91-1	ND	1000
Bis (2-chloroethyl) ether	111-44-4	ND	1000
Bis (2-chloroisopropyl) ether	108-60-1	ND	1000
Bis (2-ethylhexyl) phthalate	117-81-7	ND	1000
4-Bromophenyl phenyl ether	101-55-3	ND	1000
Butylbenzyl phthalate	85-68-7	ND	1000
4-Chloroaniline	106-47-8	ND	2000
2-Chloronaphthalene	91-58-7	ND	1000
4-Chlorophenyl phenyl ether	7005-72-3	ND	1000
Chrysene	218-01-9	ND	1000
Dibenzo (a,h) anthracene	53-70-3	ND	1000
Dibenzofuran	132-64-9	ND	1000
Di-n-butylphthalate	84-74-2	ND	1000
1,2-Dichlorobenzene	95-50-1	ND	1000
1,3-Dichlorobenzene	541-73-1	ND	1000
1,4-Dichlorobenzene	106-46-7	ND	1000
3,3'-Dichlorobenzidine	91-94-1	ND	2000
Diethylphthalate	84-66-2	ND	1000
Dimethylphthalate	131-11-3	ND	1000

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A-10A  
 Batch No.: 12877  
 Matrix: SOIL

Date Sampled: 01/06/94  
 Date Received: 01/07/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94  
 Client ID No.: GSA B6-5

Sample: GSA B6-5(cont.)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	1000
2,6-Dinitrotoluene	606-20-2	ND	1000
Di-n-octylphthalate	117-84-0	ND	1000
Fluoranthene	206-44-0	ND	1000
Fluorene	86-73-7	ND	1000
Hexachlorobenzene	118-74-1	ND	1000
Hexachlorobutadiene	87-68-3	ND	1000
Hexachlorocyclopentadiene	77-47-4	ND	1000
Hexachloroethane	67-72-1	ND	1000
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1000
Isophorone	78-59-1	ND	1000
2-Methylnaphthalene	91-57-6	ND	1000
Naphthalene	91-20-3	ND	1000
2-Nitroaniline	88-74-4	ND	5000
3-Nitroaniline	99-09-2	ND	5000
4-Nitroaniline	100-01-6	ND	5000
Nitrobenzene	98-95-3	ND	1000
N-Nitrosodiphenylamine	86-30-6	ND	1000
N-Nitroso-di-n-propylamine	621-64-7	ND	1000
Phenanthrene	85-01-8	ND	1000
Pyrene	129-00-0	ND	1000
1,2,4-Trichlorobenzene	120-82-1	ND	1000
Benzoic Acid	65-85-0	ND	5000
4-Chloro-3-methylphenol	59-50-7	ND	2000
2-Chlorophenol	95-57-8	ND	1000
2,4-Dichlorophenol	120-83-2	ND	1000
2,4-Dimethylphenol	105-67-9	ND	1000
2,4-Dinitrophenol	51-28-5	ND	5000
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5000
2-Methylphenol	95-48-7	ND	1000
3/4-Methylphenol	N/A	ND	1000
2-Nitrophenol	88-75-5	ND	1000
4-Nitrophenol	100-02-7	ND	5000
Pentachlorophenol	87-86-5	ND	5000
Phenol	108-95-2	ND	1000
2,4,5-Trichlorophenol	95-95-4	ND	1000
2,4,6-Trichlorophenol	88-06-2	ND	1000

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.



# California Laboratory Services

**Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
Sonication, EPA Method 3550**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793512  
COC Log No.: 10203  
CLS ID No.: M3512A-11A  
Batch No.: 12877  
Matrix: SOIL**

**Date Sampled: 01/06/94  
Date Received: 01/07/94  
Date Extracted: 01/12/93  
Date Analyzed: 01/15/93  
Date Reported: 01/19/94  
Client ID No.: GSA B6-10.5**

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	92
2-Fluorophenol	367-12-4	10	76
2,4,6-Tribromophenol	118-79-6	10	85
Nitrobenzene-d5	N/A	10	81
2-Fluorobiphenyl	321-60-8	10	71
Terphenyl-d14	N/A	10	133

NR= Not Reportable; See cover letter for explanation.

## Sample: GSA B6-10.5

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1
Acenaphthylene	208-96-8	ND	1
Anthracene	120-12-7	ND	1
Benzo(a)anthracene	56-55-3	ND	1
Benzo(b)fluoranthene	205-99-2	ND	1
Benzo(k)fluoranthene	207-08-9	ND	1
Benzo(g,h,i)perylene	191-24-2	ND	1
Benzo(a)pyrene	50-32-8	ND	1
Benzyl alcohol	100-51-6	ND	2
Bis(2-chloroethoxy)methane	111-91-1	ND	1
Bis(2-chloroethyl)ether	111-44-4	ND	1
Bis(2-chloroisopropyl)ether	108-60-1	ND	1
Bis(2-ethylhexyl)phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	1
Butylbenzyl phthalate	85-68-7	ND	1
4-Chloroaniline	106-47-8	ND	2
2-Chloronaphthalene	91-58-7	ND	1
4-Chlorophenyl phenyl ether	7005-72-3	ND	1
Chrysene	218-01-9	ND	1
Dibenzo(a,h)anthracene	53-70-3	ND	1
Dibenzofuran	132-64-9	ND	1
Di-n-butylphthalate	84-74-2	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1
1,3-Dichlorobenzene	541-73-1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1
3,3'-Dichlorobenzidine	91-94-1	ND	2
Diethylphthalate	84-66-2	ND	1
Dimethylphthalate	131-11-3	ND	1

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

**Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
Sonication, EPA Method 3550**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793512**  
**COC Log No.: 10203**  
**CLS ID No.: M3512A-11A**  
**Batch No.: 12877**  
**Matrix: SOIL**

**Date Sampled: 01/06/94**  
**Date Received: 01/07/94**  
**Date Extracted: 01/12/93**  
**Date Analyzed: 01/15/93**  
**Date Reported: 01/19/94**  
**Client ID No.: GSA B6-10.5**

**Sample: GSA B6-10.5(cont.)**

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	1
2,6-Dinitrotoluene	606-20-2	ND	1
Di-n-octylphthalate	117-84-0	ND	1
Fluoranthene	206-44-0	18	1
Fluorene	86-73-7	ND	1
Hexachlorobenzene	118-74-1	ND	1
Hexachlorobutadiene	87-68-3	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	1
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1
Isophorone	78-59-1	ND	1
2-Methylnaphthalene	91-57-6	ND	1
Naphthalene	91-20-3	ND	1
2-Nitroaniline	88-74-4	ND	5
3-Nitroaniline	99-09-2	ND	5
4-Nitroaniline	100-01-6	ND	5
Nitrobenzene	98-95-3	ND	1
N-Nitrosodiphenylamine	86-30-6	ND	1
N-Nitroso-di-n-propylamine	621-64-7	ND	1
Phenanthrene	85-01-8	ND	1
Pyrene	129-00-0	35	1
1,2,4-Trichlorobenzene	120-82-1	ND	1
Benzoic Acid	65-85-0	ND	5
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	1
2,4-Dichlorophenol	120-83-2	ND	1
2,4-Dimethylphenol	105-67-9	ND	1
2,4-Dinitrophenol	51-28-5	ND	5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5
2-Methylphenol	95-48-7	ND	1
3/4-Methylphenol	N/A	ND	1
2-Nitrophenol	88-75-5	ND	1
4-Nitrophenol	100-02-7	ND	5
Pentachlorophenol	87-86-5	ND	5
Phenol	108-95-2	ND	1
2,4,5-Trichlorophenol	95-95-4	ND	1
2,4,6-Trichlorophenol	88-06-2	ND	1

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A-12A  
 Batch No.: 12877  
 Matrix: SOIL

Date Sampled: 01/06/94  
 Date Received: 01/07/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94  
 Client ID No.: GSA B6-14

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	93
2-Fluorophenol	367-12-4	10	72
2,4,6-Tribromophenol	118-79-6	10	86
Nitrobenzene-d5	N/A	10	82
2-Fluorobiphenyl	321-60-8	10	67
Terphenyl-d14	N/A	10	133

NR= Not Reportable; See cover letter for explanation.

## Sample: GSA B6-14

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1
Acenaphthylene	208-96-8	ND	1
Anthracene	120-12-7	ND	1
Benzo (a) anthracene	56-55-3	ND	1
Benzo (b) fluoranthene	205-99-2	ND	1
Benzo (k) fluoranthene	207-08-9	ND	1
Benzo (g, h, i) perylene	191-24-2	ND	1
Benzo (a) pyrene	50-32-8	ND	1
Benzyl alcohol	100-51-6	ND	2
Bis (2-chloroethoxy) methane	111-91-1	ND	1
Bis (2-chloroethyl) ether	111-44-4	ND	1
Bis (2-chloroisopropyl) ether	108-60-1	ND	1
Bis (2-ethylhexyl) phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	1
Butylbenzyl phthalate	85-68-7	ND	1
4-Chloroaniline	106-47-8	ND	2
2-Chloronaphthalene	91-58-7	ND	1
4-Chlorophenyl phenyl ether	7005-72-3	ND	1
Chrysene	218-01-9	ND	1
Dibenzo (a, h) anthracene	53-70-3	ND	1
Dibenzofuran	132-64-9	ND	1
Di-n-butylphthalate	84-74-2	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1
1,3-Dichlorobenzene	541-73-1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1
3,3'-Dichlorobenzidine	91-94-1	ND	2
Diethylphthalate	84-66-2	ND	1
Dimethylphthalate	131-11-3	ND	1

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

**Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
Sonication, EPA Method 3550**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209) 267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793512**  
**COC Log No.: 10203**  
**CLS ID No.: M3512A-12A**  
**Batch No.: 12877**  
**Matrix: SOIL**

**Date Sampled: 01/06/94**  
**Date Received: 01/07/94**  
**Date Extracted: 01/12/93**  
**Date Analyzed: 01/15/93**  
**Date Reported: 01/19/94**  
**Client ID No.: GSA B6-14**

**Sample: GSA B6-14 (cont.)**

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	1
2,6-Dinitrotoluene	606-20-2	ND	1
Di-n-octylphthalate	117-84-0	ND	1
Fluoranthene	206-44-0	ND	1
Fluorene	86-73-7	ND	1
Hexachlorobenzene	118-74-1	ND	1
Hexachlorobutadiene	87-68-3	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	1
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1
Isophorone	78-59-1	ND	1
2-Methylnaphthalene	91-57-6	ND	1
Naphthalene	91-20-3	ND	1
2-Nitroaniline	88-74-4	ND	5
3-Nitroaniline	99-09-2	ND	5
4-Nitroaniline	100-01-6	ND	5
Nitrobenzene	98-95-3	ND	1
N-Nitrosodiphenylamine	86-30-6	ND	1
N-Nitroso-di-n-propylamine	621-64-7	ND	1
Phenanthrene	85-01-8	ND	1
Pyrene	129-00-0	ND	1
1,2,4-Trichlorobenzene	120-82-1	ND	1
Benzoic Acid	65-85-0	ND	5
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	1
2,4-Dichlorophenol	120-83-2	ND	1
2,4-Dimethylphenol	105-67-9	ND	1
2,4-Dinitrophenol	51-28-5	ND	5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5
2-Methylphenol	95-48-7	ND	1
3/4-Methylphenol	N/A	ND	1
2-Nitrophenol	88-75-5	ND	1
4-Nitrophenol	100-02-7	ND	5
Pentachlorophenol	87-86-5	ND	5
Phenol	108-95-2	ND	1
2,4,5-Trichlorophenol	95-95-4	ND	1
2,4,6-Trichlorophenol	88-06-2	ND	1

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

**Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270**  
**Sonication, EPA Method 3550**

**Client: TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793512**  
**COC Log No.: 10203**  
**CLS ID No.: M3512A**  
**Batch No.: 12877**  
**Matrix: SOIL**

**Date Extracted: 01/12/93**  
**Date Analyzed: 01/15/93**  
**Date Reported: 01/19/94**

### MB SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	MB Surrogate Recovery (percent)
Phenol-d5	N/A	10	100
2-Fluorophenol	367-12-4	10	83
2,4,6-Tribromophenol	118-79-6	10	86
Nitrobenzene-d5	N/A	10	87
2-Fluorobiphenyl	321-60-8	10	72
Terphenyl-d14	N/A	10	126

### METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1
Acenaphthylene	208-96-8	ND	1
Anthracene	120-12-7	ND	1
Benzo (a) anthracene	56-55-3	ND	1
Benzo (b) fluoranthene	205-99-2	ND	1
Benzo (k) fluoranthene	207-08-9	ND	1
Benzo (g, h, i) perylene	191-24-2	ND	1
Benzo (a) pyrene	50-32-8	ND	1
Benzyl alcohol	100-51-6	ND	2
Bis (2-chloroethoxy) methane	111-91-1	ND	1
Bis (2-chloroethyl) ether	111-44-4	ND	1
Bis (2-chloroisopropyl) ether	108-60-1	ND	1
Bis (2-ethylhexyl) phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	1
Butylbenzyl phthalate	85-68-7	ND	1
4-Chloroaniline	106-47-8	ND	2
2-Chloronaphthalene	91-58-7	ND	1
4-Chlorophenyl phenyl ether	7005-72-3	ND	1
Chrysene	218-01-9	ND	1
Dibenzo (a, h) anthracene	53-70-3	ND	1
Dibenzofuran	132-64-9	ND	1
Di-n-butylphthalate	84-74-2	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1
1,3-Dichlorobenzene	541-73-1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1
3,3'-Dichlorobenzidine	91-94-1	ND	2
Diethylphthalate	84-66-2	ND	1
Dimethylphthalate	131-11-3	ND	1
2,4-Dinitrotoluene	121-14-2	ND	1
2,6-Dinitrotoluene	606-20-2	ND	1
Di-n-octylphthalate	117-84-0	ND	1

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parentheses

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A  
 Batch No.: 12877  
 Matrix: SOIL

Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94

## METHOD BLANK (cont.)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Fluoranthene	206-44-0	ND	1
Fluorene	86-73-7	ND	1
Hexachlorobenzene	118-74-1	ND	1
Hexachlorobutadiene	87-68-3	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	1
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1
Isophorone	78-59-1	ND	1
2-Methylnaphthalene	91-57-6	ND	1
Naphthalene	91-20-3	ND	1
2-Nitroaniline	88-74-4	ND	5
3-Nitroaniline	99-09-2	ND	5
4-Nitroaniline	100-01-6	ND	5
Nitrobenzene	98-95-3	ND	1
N-Nitrosodiphenylamine	86-30-6	ND	1
N-Nitroso-di-n-propylamine	621-64-7	ND	1
Phenanthrene	85-01-8	ND	1
Pyrene	129-00-0	ND	1
1,2,4-Trichlorobenzene	120-82-1	ND	1
Benzoic Acid	65-85-0	ND	5
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	1
2,4-Dichlorophenol	120-83-2	ND	1
2,4-Dimethylphenol	105-67-9	ND	1
2,4-Dinitrophenol	51-28-5	ND	5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5
2-Methylphenol	95-48-7	ND	1
3/4-Methylphenol	N/A	ND	1
2-Nitrophenol	88-75-5	ND	1
4-Nitrophenol	100-02-7	ND	5
Pentachlorophenol	87-86-5	ND	5
Phenol	108-95-2	ND	1
2,4,5-Trichlorophenol	95-95-4	ND	1
2,4,6-Trichlorophenol	88-06-2	ND	1

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parentheses

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A  
 Batch No.: 12877  
 Matrix: SOIL

Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94

### MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (mg/kg)	MS Surrogate Recovery (percent)
Phenol-d5	N/A	10	67
2-Fluorophenol	367-12-4	10	85
2,4,6-Tribromophenol	118-79-6	10	109
Nitrobenzene-d5	N/A	10	83
2-Fluorobiphenyl	321-60-8	10	68
Terphenyl-d14	N/A	10	133

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	10	95
Acenaphthene	83-32-9	10	74
2,4-Dinitrotoluene	121-14-2	10	73
Pyrene	129-00-0	10	107
N-Nitroso-di-n-propylamine	621-64-7	10	90
1,4-Dichlorobenzene	106-46-7	10	74
Pentachlorophenol	87-86-5	10	76
Phenol	108-95-2	10	62
2-Chlorophenol	95-57-8	10	93
4-Chloro-3-methylphenol	59-50-7	10	116
4-Nitrophenol	100-02-7	10	54

### MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (mg/kg)	MSD Surrogate Recovery (percent)
Phenol-d5	N/A	10	55
2-Fluorophenol	367-12-4	10	57
2,4,6-Tribromophenol	118-79-6	10	107
Nitrobenzene-d5	N/A	10	69
2-Fluorobiphenyl	321-60-8	10	57
Terphenyl-d14	N/A	10	115

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/19/94

CLS Contact: George Hampton  
 Job No.: 793512  
 COC Log No.: 10203  
 CLS ID No.: M3512A  
 Batch No.: 12877  
 Matrix: SOIL

## MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	10	77
Acenaphthene	83-32-9	10	66
2,4-Dinitrotoluene	121-14-2	10	67
Pyrene	129-00-0	10	92
N-Nitroso-di-n-propylamine	621-64-7	10	70
1,4-Dichlorobenzene	106-46-7	10	59
Pentachlorophenol	87-86-5	10	107
Phenol	108-95-2	10	52
2-Chlorophenol	95-57-8	10	77
4-Chloro-3-methylphenol	59-50-7	10	106
4-Nitrophenol	100-02-7	10	52

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
1,2,4-Trichlorobenzene	120-82-1	21
Acenaphthene	83-32-9	11
2,4-Dinitrotoluene	121-14-2	9
Pyrene	129-00-0	15
N-Nitroso-di-n-propylamine	621-64-7	25
1,4-Dichlorobenzene	106-46-7	23
Pentachlorophenol	87-86-5	34
Phenol	108-95-2	18
2-Chlorophenol	95-57-8	19
4-Chloro-3-methylphenol	59-50-7	9
4-Nitrophenol	100-02-7	4



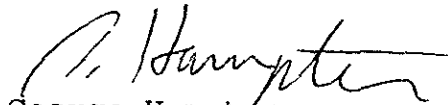
## California Laboratory Services

January 20, 1994

Dear Valued Client:

Please note that California Laboratory Services has recently instituted the appropriate methodological changes to TPH-Diesel analysis of soils to allow a 1 mg/kg reporting limit. The previous standard reporting limit was 10 mg/kg. This change was in response to a recent modification by the Tri-Regional Water Quality Control Board requesting lower reporting limits. However, if you have project specific requirements with data quality objectives dictating higher reporting limits, please let us know and we will respond to your needs.

Sincerely,



George Hampton  
Laboratory Director



CLIENT NAME: TKS CONSULTING  
 ADDRESS: P.O. Box 1618  
SUTTER CR, CA  
 PROJECT NAME: CSA  
 PROJECT MANAGER: TIM SMITH PHONE #: 209-267-0903  
 SAMPLED BY: TIM SMITH  
 JOB DESCRIPTION: CSA TANK #3  
 CHARACTERIZATION  
 SITE LOCATION: FLAMINGO

CLIENT JOB NUMBER: \_\_\_\_\_  
 DESTINATION LABORATORY:  
 CLS  
 3249 FITZGERALD RD.  
 RANCHO CORDOVA, CA 95742  
 OTHER  
 PH: (916) 638-7777

ANALYSIS REQUESTED

PRESERVATIVES	BTEX + TPH-G	X	X	X	X	X	X	X	X	PCAP - Cd, Cr, Pb, Ni
	TPH-D (Extract)	X	X	X	X	X	X	X	X	
	413, 2	X	X	X	X	X	X	X	X	
	8270	X	X	X	X	X	X	X	X	
	PCB Mid 8080	X	X	X	X	X	X	X	X	
	8240	X	X	X	X	X	X	X	X	
	PCAP - Cd, Cr, Pb, Ni	X	X	X	X	X	X	X	X	

FIELD CONDITIONS: cool/clear  
 COMPOSITE: Composite similar matrices from both samples to make 2 sample analysis  
 SPECIAL INSTRUCTIONS: Composite black sludge from both samples as one sample + both sediments as one sample  
 TURN AROUND TIME: \_\_\_\_\_ NOTE / FIELD READINGS: \_\_\_\_\_

DATE	TIME	SAMPLE IDENTIFICATION	METHOD	MATRIX	CONTAINER		PRESERVATIVES	24 HOURS	48 HOURS	1 WEEK	2 WEEKS	NOTE / FIELD READINGS	
					NO.	TYPE							
1/11/94	1525	CSAT3-17A	Sludge	1 1/2 sed	1	JAR	X	X	X	X	X	X	Heavy H.C. with sediment sludge + water: Samples of F black H.C. + sludge desired.
1/11/94	1525	CSAT3-17B	"	"	"	"	X	X	X	X	X	X	

SUSPECTED CONSTITUENTS: \_\_\_\_\_ SAMPLE RETENTION TIME: \_\_\_\_\_ PRESERVATIVES: (1) HCL (2) HNO3 (3) = GOLD (4)

RELINQUISHED BY (SIGN): [Signature] PRINT NAME / COMPANY: TIM K. SMITH TKS CONSULTING DATE: 1/12/94 TIME: 1558

REC'D AT LAB BY: Susan Durns DATE / TIME: 1-12-94 1558 CONDITIONS / COMMENTS: \_\_\_\_\_

SHIPPED VIA:  FED X  UPS  OTHER OTC AIR BILL # \_\_\_\_\_

LAB

# California Laboratory Services

TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

01/20/94

Attention: Tim Smith

Reference: Analytical Results

Project Name: GSA  
Project No.:  
Date Received: 01/12/94  
Chain Of Custody: 17002

CLS ID No.: M3563  
CLS Job No.: 793563

The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
2	2 Days	Metals by EPA 6010
2	2 Days	TPH Diesel by DHS Method - M8015 (soil)
2	2 Days	TPH Gasoline and BTXE (soil)
2	2 Days	PCB's in Soil, Sludge or Other Oil
2	2 Days	Volatile Organics by EPA Method 8240
2	2 Days	Semivolatile Organic Compounds by GC/MS
2	2 Days	Total Recoverable Oil and Grease

Although samples "Comp. Top Layer-Sludge" and "Comp. Lower Layer-Sediment" were found to contain compounds in the retention time range generally associated with diesel fuel, the chromatograms for these samples were not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentrations are based on diesel #2 calibration.

Elevated method 8020/8015 TPH as Gasoline reporting limits for samples "Comp. Top Layer-Sludge" and "Comp. Lower Layer-Sediment" are due to the presence of heavier hydrocarbons on these samples.

The very high concentration of petroleum hydrocarbons in these samples required EPA 8240 and 8270 analyses to be performed diluted. In those cases the report limits were elevated accordingly.

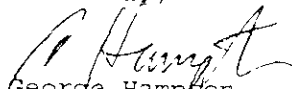
Method 8270 surrogate standard recovery data could not be generated for samples "Comp. Top Layer-Sludge" and "Comp. Lower Layer-Sediment" due to the presence of hydrocarbon in these samples.

Elevated method 8270 reporting limits for samples "Comp. Top Layer-Sludge" and "Comp. Lower Layer-Sediment" are due to the presence of hydrocarbon in these samples.

These samples were received by California Laboratory Services in a chilled, intact state and accompanied by a valid chain of custody document.

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

Sincerely,

  
George Hampton  
Laboratory Director

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Digested: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/14/94  
Client ID No.: Comp. Top Layer-Sludge

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-3A  
Batch No.: M940112C  
Matrix: SLUDGE

Sample: COMP. TOP LAYER-SLUDGE

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	ND	5.0	6010
Ni (Nickel)	7440-02-0	ND	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	ND	5.0	6010

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-6A  
Batch No.: M940112C  
Matrix: SEDIMENT

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Digested: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/14/94  
Client ID No.: Comp.Lower Layer-Sediment

Sample: COMP.LOWER LAYER-SEDIMENT

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	22	5.0	6010
Ni (Nickel)	7440-02-0	33	5.0	6010
Pb (Lead)	7439-92-1	10	5.0	6010
Zn (Zinc)	7440-66-6	47	5.0	6010

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: M940112C  
Matrix: SLUDGE

Date Digested: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/14/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	ND	5.0	6010
Ni (Nickel)	7440-02-0	ND	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	ND	5.0	6010

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563  
 Batch No.: M940112C  
 Matrix: SLUDGE

Date Digested: 01/12/94  
 Date Analyzed: 01/13/94  
 Date Reported: 01/14/94

## MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Cd (Cadmium)	7440-43-9	10	98
Cr (Chromium)	7440-47-3	40	102
Ni (Nickel)	7440-02-0	100	97
Pb (Lead)	7439-92-1	100	89
Zn (Zinc)	7440-66-6	100	80

## MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Cd (Cadmium)	7440-43-9	10	100
Cr (Chromium)	7440-47-3	40	107
Ni (Nickel)	7440-02-0	100	97
Pb (Lead)	7439-92-1	100	91
Zn (Zinc)	7440-66-6	100	84

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cd (Cadmium)	7440-43-9	2
Cr (Chromium)	7440-47-3	5
Ni (Nickel)	7440-02-0	0
Pb (Lead)	7439-92-1	2
Zn (Zinc)	7440-66-6	5

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Reported: 01/14/94

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: M940112C  
Matrix: SLUDGE

## LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Cd (Cadmium)	7440-43-9	10	85
Cr (Chromium)	7440-47-3	40	88
Ni (Nickel)	7440-02-0	100	90
Pb (Lead)	7439-92-1	100	88
Zn (Zinc)	7440-66-6	100	88



# California Laboratory Services

**Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793563**  
**COC Log No.: 17002**  
**CLS ID No.: M3563-3A**  
**Batch No.: 12879**  
**Matrix: SLUDGE**

**Date Sampled: 01/11/94**  
**Date Received: 01/12/94**  
**Date Extracted: 01/12/94**  
**Date Analyzed: 01/18/94**  
**Date Reported: 01/20/94**  
**Client ID No.: Comp. Top Layer-Sludge**

**Sample: COMP. TOP LAYER-SLUDGE**

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	490000	100000

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/18/94  
Date Reported: 01/20/94  
Client ID No.: Comp.Lower Layer-Sediment

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-6A  
Batch No.: 12879  
Matrix: SEDIMENT

Sample: COMP.LOWER LAYER-SEDIMENT

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	4000	1000

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12879  
Matrix: SLUDGE

Date Extracted: 01/12/94  
Date Analyzed: 01/18/94  
Date Reported: 01/20/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	1.0

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

# California Laboratory Services

**Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Shaker, DOHS LUFT Method**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12879  
Matrix: SLUDGE**

**Date Extracted: 01/12/94  
Date Analyzed: 01/18/94  
Date Reported: 01/20/94**

### LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel	N/A	10	110

### LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCSD Recovery (percent)
Diesel	N/A	10	98

### LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel	N/A	12

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-3A  
Batch No.: 12885  
Matrix: SLUDGE

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/13/94  
Date Analyzed: 01/13/94  
Date Reported: 01/20/94  
Client ID No.: Comp. Top Layer-Sludge

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	40000	82

*Sample: COMP. TOP LAYER-SLUDGE*

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	2000
Toluene	108-88-3	ND	2000
Ethylbenzene	100-41-4	ND	2000
Xylenes, total	1330-20-7	ND	5000

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-6A  
Batch No.: 12885  
Matrix: SEDIMENT

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/13/94  
Date Analyzed: 01/13/94  
Date Reported: 01/20/94  
Client ID No.: Comp.Lower Layer-Sediment

### SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	1000	85

Sample: COMP.LOWER LAYER-SEDIMENT

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	50
Toluene	108-88-3	ND	50
Ethylbenzene	100-41-4	ND	50
Xylenes, total	1330-20-7	ND	100

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12885  
Matrix: SLUDGE

Date Extracted: 01/13/94  
Date Analyzed: 01/13/94  
Date Reported: 01/20/94

### MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	89

### METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, total	1330-20-7	ND	10

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-3A  
Batch No.: 12885  
Matrix: SLUDGE

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/13/94  
Date Analyzed: 01/13/94  
Date Reported: 01/20/94  
Client ID No.: Comp. Top Layer-Sludge

Sample: COMP. TOP LAYER-SLUDGE

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	400

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



# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/13/94  
Date Analyzed: 01/13/94  
Date Reported: 01/20/94  
Client ID No.: Comp.Lower Layer-Sediment

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-6A  
Batch No.: 12885  
Matrix: SEDIMENT

Sample: COMP.LOWER LAYER-SEDIMENT

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	10

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12885  
Matrix: SLUDGE

Date Extracted: 01/13/94  
Date Analyzed: 01/13/94  
Date Reported: 01/20/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA  
Date Extracted: 01/13/94  
Date Analyzed: 01/13/94  
Date Reported: 01/20/94

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12885  
Matrix: SLUDGE

## MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Gasoline	N/A	2.5	83

## MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Gasoline	N/A	2.5	87

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Gasoline	N/A	5

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/13/94  
Date Analyzed: 01/13/94  
Date Reported: 01/20/94

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12885  
Matrix: SLUDGE

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Gasoline	N/A	2.5	86

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-3A  
Batch No.: 12882  
Matrix: SLUDGE

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: Comp. Top Layer-Sludge

Sample: COMP. TOP LAYER-SLUDGE

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12882  
Matrix: SLUDGE

Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Aroclor 1016	12674-11-2	ND	1.0
Aroclor 1221	1104-28-2	ND	1.0
Aroclor 1232	11141-16-5	ND	1.0
Aroclor 1242	53469-21-9	ND	1.0
Aroclor 1248	12672-29-6	ND	1.0
Aroclor 1254	11097-69-1	ND	1.0
Aroclor 1260	11096-82-5	ND	1.0

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: **TKS Consulting**  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: **Tim Smith**  
 Phone: (209)267-0903

Project: **GSA**

CLS Contact: **George Hampton**  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563  
 Batch No.: 12882  
 Matrix: **SLUDGE**

Date Extracted: 01/12/94  
 Date Analyzed: 01/13/94  
 Date Reported: 01/17/94

**LAB CONTROL SAMPLE**

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Aroclor 1260	11096-82-5	5.0	96

**LAB CONTROL SAMPLE DUPLICATE**

Analyte	CAS No.	LCS Conc. (mg/kg)	LCSD Recovery (percent)
Aroclor 1260	11096-82-5	5.0	94

**LCS RPD**

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Aroclor 1260	11096-82-5	2

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-6A  
Batch No.: 12881  
Matrix: SEDIMENT

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94  
Client ID No.: Comp.Lower Layer-Sediment

Sample: COMP.LOWER LAYER-SEDIMENT

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Aroclor 1016	12674-11-2	ND	20
Aroclor 1221	1104-28-2	ND	20
Aroclor 1232	11141-16-5	ND	20
Aroclor 1242	53469-21-9	ND	20
Aroclor 1248	12672-29-6	ND	20
Aroclor 1254	11097-69-1	ND	20
Aroclor 1260	11096-82-5	ND	20

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.



# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12881  
Matrix: SEDIMENT

Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/17/94

## METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Aroclor 1016	12674-11-2	ND	20
Aroclor 1221	1104-28-2	ND	20
Aroclor 1232	11141-16-5	ND	20
Aroclor 1242	53469-21-9	ND	20
Aroclor 1248	12672-29-6	ND	20
Aroclor 1254	11097-69-1	ND	20
Aroclor 1260	11096-82-5	ND	20

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Polychlorinated Biphenyls, EPA Method 8080

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563  
 Batch No.: 12881  
 Matrix: SEDIMENT

Date Extracted: 01/12/94  
 Date Analyzed: 01/13/94  
 Date Reported: 01/17/94

### LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
Aroclor 1260	11096-82-5	170	94

### LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCSD Recovery (percent)
Aroclor 1260	11096-82-5	170	82

### LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Aroclor 1260	11096-82-5	14

# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563-3A  
 Batch No.: 12900  
 Matrix: SLUDGE

Date Sampled: 01/11/94  
 Date Received: 01/12/94  
 Date Extracted: 01/13/94  
 Date Analyzed: 01/14/94  
 Date Reported: 01/18/94  
 Client ID No.: Comp. Top Layer-Sludge

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	2000	89
Toluene-d8	N/A	2000	97
p-Bromofluorobenzene	460-00-4	2000	107

### Sample: COMP. TOP LAYER-SLUDGE

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acetone	67-64-1	ND	2000
Benzene	71-43-2	ND	100
Bromodichloromethane	75-27-4	ND	100
Bromoform	75-25-2	ND	100
Bromomethane	74-83-9	ND	200
2-Butanone	78-93-3	ND	2000
Carbon disulfide	75-15-0	ND	100
Carbon tetrachloride	56-23-5	ND	100
Chlorobenzene	108-90-7	ND	100
Chloroethane	75-00-3	ND	200
2-Chloroethyl vinyl ether	110-75-8	ND	1000
Chloroform	67-66-3	ND	100
Chloromethane	74-87-3	ND	200
Dibromochloromethane	124-48-1	ND	100
Dibromomethane	74-95-3	ND	100
1,2-Dichlorobenzene	95-50-1	ND	100
1,3-Dichlorobenzene	541-73-1	ND	100
1,4-Dichlorobenzene	106-46-7	ND	100
Dichlorodifluoromethane	75-71-8	ND	200
1,1-Dichloroethane	75-34-3	ND	100
1,2-Dichloroethane	107-06-2	ND	100
1,1-Dichloroethene	75-35-4	ND	100
1,2-Dichloroethene, total	540-59-0	ND	100
1,2-Dichloropropane	78-87-5	ND	100
cis-1,3-Dichloropropene	10061-01-5	ND	100
trans-1,3-Dichloropropene	10061-02-6	ND	100
Ethylbenzene	100-41-4	ND	100
2-Hexanone	591-78-6	ND	1000
Methylene chloride	75-09-2	ND	100
4-Methyl-2-pentanone	108-10-1	ND	1000
Styrene	100-42-5	ND	100
1,1,2,2-Tetrachloroethane	79-34-5	ND	100
Tetrachloroethene	127-18-4	ND	100
Toluene	108-88-3	ND	100

ND = Not detected at or above indicated Reporting Limit.  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-3A  
Batch No.: 12900  
Matrix: SLUDGE

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/13/94  
Date Analyzed: 01/14/94  
Date Reported: 01/18/94  
Client ID No.: Comp. Top Layer-Sludge

Sample: COMP. TOP LAYER-SLUDGE(cont.)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
1,1,1-Trichloroethane	71-55-6	ND	100
1,1,2-Trichloroethane	79-00-5	ND	100
Trichloroethene	79-01-6	ND	100
Trichlorofluoromethane	75-69-4	ND	100
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	100
Vinyl acetate	108-05-4	ND	1000
Vinyl chloride	75-01-4	ND	200
Xylenes, total	1330-20-7	ND	200

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-6A  
Batch No.: 12900  
Matrix: SEDIMENT

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/13/94  
Date Analyzed: 01/14/94  
Date Reported: 01/18/94  
Client ID No.: Comp.Lower Layer-Sediment

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	200	95
Toluene-d8	N/A	200	94
p-Bromofluorobenzene	460-00-4	200	105

Sample: COMP.LOWER LAYER-SEDIMENT

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acetone	67-64-1	ND	200
Benzene	71-43-2	ND	10
Bromodichloromethane	75-27-4	ND	10
Bromoform	75-25-2	ND	10
Bromomethane	74-83-9	ND	20
2-Butanone	78-93-3	ND	200
Carbon disulfide	75-15-0	ND	10
Carbon tetrachloride	56-23-5	ND	10
Chlorobenzene	108-90-7	ND	10
Chloroethane	75-00-3	ND	20
2-Chloroethyl vinyl ether	110-75-8	ND	100
Chloroform	67-66-3	ND	10
Chloromethane	74-87-3	ND	20
Dibromochloromethane	124-48-1	ND	10
Dibromomethane	74-95-3	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
Dichlorodifluoromethane	75-71-8	ND	20
1,1-Dichloroethane	75-34-3	ND	10
1,2-Dichloroethane	107-06-2	ND	10
1,1-Dichloroethene	75-35-4	ND	10
1,2-Dichloroethene, total	540-59-0	ND	10
1,2-Dichloropropane	78-87-5	ND	10
cis-1,3-Dichloropropene	10061-01-5	ND	10
trans-1,3-Dichloropropene	10061-02-6	ND	10
Ethylbenzene	100-41-4	ND	10
2-Hexanone	591-78-6	ND	100
Methylene chloride	75-09-2	ND	10
4-Methyl-2-pentanone	108-10-1	ND	100
Styrene	100-42-5	ND	10
1,1,1,2,2-Tetrachloroethane	79-34-5	ND	10
Tetrachloroethene	127-18-4	ND	10
Toluene	108-88-3	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563-6A  
 Batch No.: 12900  
 Matrix: SEDIMENT

Date Sampled: 01/11/94  
 Date Received: 01/12/94  
 Date Extracted: 01/13/94  
 Date Analyzed: 01/14/94  
 Date Reported: 01/18/94  
 Client ID No.: Comp.Lower Layer-Sediment

Sample: COMP.LOWER LAYER-SEDIMENT(cont.)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
1,1,1-Trichloroethane	71-55-6	ND	10
1,1,2-Trichloroethane	79-00-5	ND	10
Trichloroethene	79-01-6	ND	10
Trichlorofluoromethane	75-69-4	ND	10
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	10
Vinyl acetate	108-05-4	ND	100
Vinyl chloride	75-01-4	ND	20
Xylenes, total	1330-20-7	ND	20

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: **TKS Consulting**  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: **Tim Smith**  
 Phone: **(209)267-0903**

Project: **GSA**

CLS Contact: **George Hampton**  
 Job No.: **793563**  
 COC Log No.: **17002**  
 CLS ID No.: **M3563**  
 Batch No.: **12900**  
 Matrix: **SLUDGE**

Date Extracted: **01/13/94**  
 Date Analyzed: **01/14/94**  
 Date Reported: **01/18/94**

## MB SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	MB Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	200	80
Toluene-d8	N/A	200	98
p-Bromofluorobenzene	460-00-4	200	108

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acetone	67-64-1	ND	200
Benzene	71-43-2	ND	10
Bromodichloromethane	75-27-4	ND	10
Bromoform	75-25-2	ND	10
Bromomethane	74-83-9	ND	20
2-Butanone	78-93-3	ND	200
Carbon disulfide	75-15-0	ND	10
Carbon tetrachloride	56-23-5	ND	10
Chlorobenzene	108-90-7	ND	10
Chloroethane	75-00-3	ND	20
2-Chloroethyl vinyl ether	110-75-8	ND	100
Chloroform	67-66-3	ND	10
Chloromethane	74-87-3	ND	20
Dibromochloromethane	124-48-1	ND	10
Dibromomethane	74-95-3	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
Dichlorodifluoromethane	75-71-8	ND	20
1,1-Dichloroethane	75-34-3	ND	10
1,2-Dichloroethane	107-06-2	ND	10
1,1-Dichloroethene	75-35-4	ND	10
1,2-Dichloroethene, total	540-59-0	ND	10
1,2-Dichloropropane	78-87-5	ND	10
cis-1,3-Dichloropropene	10061-01-5	ND	10
trans-1,3-Dichloropropene	10061-02-6	ND	10
Ethylbenzene	100-41-4	ND	10
2-Hexanone	591-78-6	ND	100
Methylene chloride	75-09-2	ND	10
4-Methyl-2-pentanone	108-10-1	ND	100
Styrene	100-42-5	ND	10
1,1,2,2-Tetrachloroethane	79-34-5	ND	10
Tetrachloroethene	127-18-4	ND	10
Toluene	108-88-3	ND	10
1,1,1-Trichloroethane	71-55-6	ND	10

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parentheses

# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/13/94  
Date Analyzed: 01/14/94  
Date Reported: 01/18/94

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12900  
Matrix: SLUDGE

## METHOD BLANK (cont.)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
1,1,2-Trichloroethane	79-00-5	ND	10
Trichloroethene	79-01-6	ND	10
Trichlorofluoromethane	75-69-4	ND	10
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	10
Vinyl acetate	108-05-4	ND	100
Vinyl chloride	75-01-4	ND	20
Xylenes, total	1330-20-7	ND	20

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1.0000 unless otherwise indicated in parentheses.



# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563  
 Batch No.: 12900  
 Matrix: SLUDGE

Date Extracted: 01/13/94  
 Date Analyzed: 01/14/94  
 Date Reported: 01/18/94

### MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (mg/kg)	MS Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	200	99
Toluene-d8	N/A	200	95
p-Bromofluorobenzene	460-00-4	200	106

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Benzene	71-43-2	100	96
Chlorobenzene	108-90-7	100	99
1,1-Dichloroethene	75-35-4	100	90
Toluene	108-88-3	100	86
Trichloroethene	79-01-6	100	88

### MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (mg/kg)	MSD Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	200	104
Toluene-d8	N/A	200	96
p-Bromofluorobenzene	460-00-4	200	105

### MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Benzene	71-43-2	100	91
Chlorobenzene	108-90-7	100	95
1,1-Dichloroethene	75-35-4	100	84
Toluene	108-88-3	100	82
Trichloroethene	79-01-6	100	85

# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/13/94  
Date Analyzed: 01/14/94  
Date Reported: 01/18/94

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12900  
Matrix: SLUDGE

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Benzene	71-43-2	5
Chlorobenzene	108-90-7	4
1,1-Dichloroethene	75-35-4	7
Toluene	108-88-3	5
Trichloroethene	79-01-6	3

# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209) 267-0903

Project: GSA

Date Extracted: 01/13/94  
 Date Analyzed: 01/14/94  
 Date Reported: 01/18/94

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563  
 Batch No.: 12900  
 Matrix: SLUDGE

### LCS SURROGATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	100	120
Toluene-d8	N/A	100	102
p-Bromofluorobenzene	460-00-4	100	106

### LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Benzene	71-43-2	50	95
Chlorobenzene	108-90-7	50	103
1,1-Dichloroethene	75-35-4	50	88
Toluene	108-88-3	50	101
Trichloroethene	79-01-6	50	99

### LCS DUPLICATE SURROGATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Surrogate Recovery (percent)
1,2-Dichloroethane-d4	N/A	100	123
Toluene-d8	N/A	100	102
p-Bromofluorobenzene	460-00-4	100	103

### LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Benzene	71-43-2	50	87
Chlorobenzene	108-90-7	50	95
1,1-Dichloroethene	75-35-4	50	85
Toluene	108-88-3	50	94
Trichloroethene	79-01-6	50	95

# California Laboratory Services

Analysis Report: Volatile Organic Compounds by GC/MS, EPA Method 8240

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12900  
Matrix: SLUDGE

Date Extracted: 01/13/94  
Date Analyzed: 01/14/94  
Date Reported: 01/18/94

## LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Benzene	71-43-2	9
Chlorobenzene	108-90-7	8
1,1-Dichloroethene	75-35-4	3
Toluene	108-88-3	7
Trichloroethene	79-01-6	4

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563-3A  
 Batch No.: 12877  
 Matrix: SLUDGE

Date Sampled: 01/11/94  
 Date Received: 01/12/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/18/94  
 Client ID No.: Comp. Top Layer-Sludge

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	NR
2-Fluorophenol	367-12-4	10	NR
2,4,6-Tribromophenol	118-79-6	10	NR
Nitrobenzene-d5	N/A	10	NR
2-Fluorobiphenyl	321-60-8	10	NR
Terphenyl-d14	N/A	10	NR

NR= Not Reportable; See cover letter for explanation.

## Sample: COMP. TOP LAYER-SLUDGE

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1000
Acenaphthylene	208-96-8	ND	1000
Anthracene	120-12-7	ND	1000
Benzo (a) anthracene	56-55-3	ND	1000
Benzo (b) fluoranthene	205-99-2	ND	1000
Benzo (k) fluoranthene	207-08-9	ND	1000
Benzo (g, h, i) perylene	191-24-2	ND	1000
Benzo (a) pyrene	50-32-8	ND	1000
Benzyl alcohol	100-51-6	ND	2000
Bis (2-chloroethoxy) methane	111-91-1	ND	1000
Bis (2-chloroethyl) ether	111-44-4	ND	1000
Bis (2-chloroisopropyl) ether	108-60-1	ND	1000
Bis (2-ethylhexyl) phthalate	117-81-7	ND	1000
4-Bromophenyl phenyl ether	101-55-3	ND	1000
Butylbenzyl phthalate	85-68-7	ND	1000
4-Chloroaniline	106-47-8	ND	2000
2-Chloronaphthalene	91-58-7	ND	1000
4-Chlorophenyl phenyl ether	7005-72-3	ND	1000
Chrysene	218-01-9	ND	1000
Dibenzo (a, h) anthracene	53-70-3	ND	1000
Dibenzofuran	132-64-9	ND	1000
Di-n-butylphthalate	84-74-2	ND	1000
1,2-Dichlorobenzene	95-50-1	ND	1000
1,3-Dichlorobenzene	541-73-1	ND	1000
1,4-Dichlorobenzene	106-46-7	ND	1000
3,3'-Dichlorobenzidine	91-94-1	ND	2000
Diethylphthalate	84-66-2	ND	1000
Dimethylphthalate	131-11-3	ND	1000

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563-3A  
 Batch No.: 12877  
 Matrix: SLUDGE

Date Sampled: 01/11/94  
 Date Received: 01/12/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/18/94  
 Client ID No.: Comp. Top Layer-Sludge

Sample: COMP. TOP LAYER-SLUDGE(cont.)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	1000
2,6-Dinitrotoluene	606-20-2	ND	1000
Di-n-octylphthalate	117-84-0	ND	1000
Fluoranthene	206-44-0	ND	1000
Fluorene	86-73-7	ND	1000
Hexachlorobenzene	118-74-1	ND	1000
Hexachlorobutadiene	87-68-3	ND	1000
Hexachlorocyclopentadiene	77-47-4	ND	1000
Hexachloroethane	67-72-1	ND	1000
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	1000
Isophorone	78-59-1	ND	1000
2-Methylnaphthalene	91-57-6	ND	1000
Naphthalene	91-20-3	ND	1000
2-Nitroaniline	88-74-4	ND	5000
3-Nitroaniline	99-09-2	ND	5000
4-Nitroaniline	100-01-6	ND	5000
Nitrobenzene	98-95-3	ND	1000
N-Nitrosodiphenylamine	86-30-6	ND	1000
N-Nitroso-di-n-propylamine	621-64-7	ND	1000
Phenanthrene	85-01-8	ND	1000
Pyrene	129-00-0	ND	1000
1,2,4-Trichlorobenzene	120-82-1	ND	1000
Benzoic Acid	65-85-0	ND	5000
4-Chloro-3-methylphenol	59-50-7	ND	2000
2-Chlorophenol	95-57-8	ND	1000
2,4-Dichlorophenol	120-83-2	ND	1000
2,4-Dimethylphenol	105-67-9	ND	1000
2,4-Dinitrophenol	51-28-5	ND	5000
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5000
2-Methylphenol	95-48-7	ND	1000
3/4-Methylphenol	N/A	ND	1000
2-Nitrophenol	88-75-5	ND	1000
4-Nitrophenol	100-02-7	ND	5000
Pentachlorophenol	87-86-5	ND	5000
Phenol	108-95-2	ND	1000
2,4,5-Trichlorophenol	95-95-4	ND	1000
2,4,6-Trichlorophenol	88-06-2	ND	1000

ND = Not detected at or above indicated Reporting Limit.  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

Date Sampled: 01/11/94  
 Date Received: 01/12/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/18/94  
 Client ID No.: Comp.Lower Layer-Sediment

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563-6A  
 Batch No.: 12877  
 Matrix: SEDIMENT

## SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	Surrogate Recovery (percent)
Phenol-d5	N/A	10	NR
2-Fluorophenol	367-12-4	10	NR
2,4,6-Tribromophenol	118-79-6	10	NR
Nitrobenzene-d5	N/A	10	NR
2-Fluorobiphenyl	321-60-8	10	NR
Terphenyl-d14	N/A	10	NR

NR= Not Reportable; See cover letter for explanation.

## Sample: COMP.LOWER LAYER-SEDIMENT

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	100
Acenaphthylene	208-96-8	ND	100
Anthracene	120-12-7	ND	100
Benzo (a) anthracene	56-55-3	ND	100
Benzo (b) fluoranthene	205-99-2	ND	100
Benzo (k) fluoranthene	207-08-9	ND	100
Benzo (g,h,i) perylene	191-24-2	ND	100
Benzo (a) pyrene	50-32-8	ND	100
Benzyl alcohol	100-51-6	ND	200
Bis (2-chloroethoxy) methane	111-91-1	ND	100
Bis (2-chloroethyl) ether	111-44-4	ND	100
Bis (2-chloroisopropyl) ether	108-60-1	ND	100
Bis (2-ethylhexyl) phthalate	117-81-7	ND	100
4-Bromophenyl phenyl ether	101-55-3	ND	100
Butylbenzyl phthalate	85-68-7	ND	100
4-Chloroaniline	106-47-8	ND	200
2-Chloronaphthalene	91-58-7	ND	100
4-Chlorophenyl phenyl ether	7005-72-3	ND	100
Chrysene	218-01-9	ND	100
Dibenzo (a,h) anthracene	53-70-3	ND	100
Dibenzofuran	132-64-9	ND	100
Di-n-butylphthalate	84-74-2	ND	100
1,2-Dichlorobenzene	95-50-1	ND	100
1,3-Dichlorobenzene	541-73-1	ND	100
1,4-Dichlorobenzene	106-46-7	ND	100
3,3'-Dichlorobenzidine	91-94-1	ND	200
Diethylphthalate	84-66-2	ND	100
Dimethylphthalate	131-11-3	ND	100

ND = Not detected at or above indicated Reporting Limit.  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

Date Sampled: 01/11/94  
 Date Received: 01/12/94  
 Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/18/94  
 Client ID No.: Comp.Lower Layer-Sediment

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563-6A  
 Batch No.: 12877  
 Matrix: SEDIMENT

Sample: COMP.LOWER LAYER-SEDIMENT(cont.)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
2,4-Dinitrotoluene	121-14-2	ND	100
2,6-Dinitrotoluene	606-20-2	ND	100
Di-n-octylphthalate	117-84-0	ND	100
Fluoranthene	206-44-0	ND	100
Fluorene	86-73-7	ND	100
Hexachlorobenzene	118-74-1	ND	100
Hexachlorobutadiene	87-68-3	ND	100
Hexachlorocyclopentadiene	77-47-4	ND	100
Hexachloroethane	67-72-1	ND	100
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	100
Isophorone	78-59-1	ND	100
2-Methylnaphthalene	91-57-6	ND	100
Naphthalene	91-20-3	ND	100
2-Nitroaniline	88-74-4	ND	500
3-Nitroaniline	99-09-2	ND	500
4-Nitroaniline	100-01-6	ND	500
Nitrobenzene	98-95-3	ND	100
N-Nitrosodiphenylamine	86-30-6	ND	100
N-Nitroso-di-n-propylamine	621-64-7	ND	100
Phenanthrene	85-01-8	ND	100
Pyrene	129-00-0	ND	100
1,2,4-Trichlorobenzene	120-82-1	ND	100
Benzoic Acid	65-85-0	ND	500
4-Chloro-3-methylphenol	59-50-7	ND	200
2-Chlorophenol	95-57-8	ND	100
2,4-Dichlorophenol	120-83-2	ND	100
2,4-Dimethylphenol	105-67-9	ND	100
2,4-Dinitrophenol	51-28-5	ND	500
2-Methyl-4,6-dinitrophenol	534-52-1	ND	500
2-Methylphenol	95-48-7	ND	100
3/4-Methylphenol	N/A	ND	100
2-Nitrophenol	88-75-5	ND	100
4-Nitrophenol	100-02-7	ND	500
Pentachlorophenol	87-86-5	ND	500
Phenol	108-95-2	ND	100
2,4,5-Trichlorophenol	95-95-4	ND	100
2,4,6-Trichlorophenol	88-06-2	ND	100

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parenthesis



# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563  
 Batch No.: 12877  
 Matrix: SLUDGE

Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/18/94

## MB SURROGATE

Analyte	CAS No.	Surr Conc. (mg/kg)	MB Surrogate Recovery (percent)
Phenol-d5	N/A	10	100
2-Fluorophenol	367-12-4	10	83
2,4,6-Tribromophenol	118-79-6	10	86
Nitrobenzene-d5	N/A	10	87
2-Fluorobiphenyl	321-60-8	10	72
Terphenyl-d14	N/A	10	126

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Acenaphthene	83-32-9	ND	1
Acenaphthylene	208-96-8	ND	1
Anthracene	120-12-7	ND	1
Benzo(a)anthracene	56-55-3	ND	1
Benzo(b)fluoranthene	205-99-2	ND	1
Benzo(k)fluoranthene	207-08-9	ND	1
Benzo(g,h,i)perylene	191-24-2	ND	1
Benzo(a)pyrene	50-32-8	ND	1
Benzyl alcohol	100-51-6	ND	2
Bis(2-chloroethoxy)methane	111-91-1	ND	1
Bis(2-chloroethyl)ether	111-44-4	ND	1
Bis(2-chloroisopropyl)ether	108-60-1	ND	1
Bis(2-ethylhexyl)phthalate	117-81-7	ND	1
4-Bromophenyl phenyl ether	101-55-3	ND	1
Butylbenzyl phthalate	85-68-7	ND	1
4-Chloroaniline	106-47-8	ND	2
2-Chloronaphthalene	91-58-7	ND	1
4-Chlorophenyl phenyl ether	7005-72-3	ND	1
Chrysene	218-01-9	ND	1
Dibenzo(a,h)anthracene	53-70-3	ND	1
Dibenzofuran	132-64-9	ND	1
Di-n-butylphthalate	84-74-2	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1
1,3-Dichlorobenzene	541-73-1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1
3,3'-Dichlorobenzidine	91-94-1	ND	2
Diethylphthalate	84-66-2	ND	1
Dimethylphthalate	131-11-3	ND	1
2,4-Dinitrotoluene	121-14-2	ND	1
2,6-Dinitrotoluene	606-20-2	ND	1
Di-n-octylphthalate	117-84-0	ND	1

ND - Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563  
 Batch No.: 12877  
 Matrix: SLUDGE

Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/18/94

## METHOD BLANK (cont.)

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Fluoranthene	206-44-0	ND	1
Fluorene	86-73-7	ND	1
Hexachlorobenzene	118-74-1	ND	1
Hexachlorobutadiene	87-68-3	ND	1
Hexachlorocyclopentadiene	77-47-4	ND	1
Hexachloroethane	67-72-1	ND	1
Indeno (1,2,3-c,d)pyrene	193-39-5	ND	1
Isophorone	78-59-1	ND	1
2-Methylnaphthalene	91-57-6	ND	1
Naphthalene	91-20-3	ND	1
2-Nitroaniline	88-74-4	ND	5
3-Nitroaniline	99-09-2	ND	5
4-Nitroaniline	100-01-6	ND	5
Nitrobenzene	98-95-3	ND	1
N-Nitrosodiphenylamine	86-30-6	ND	1
N-Nitroso-di-n-propylamine	621-64-7	ND	1
Phenanthrene	85-01-8	ND	1
Pyrene	129-00-0	ND	1
1,2,4-Trichlorobenzene	120-82-1	ND	1
Benzoic Acid	65-85-0	ND	5
4-Chloro-3-methylphenol	59-50-7	ND	2
2-Chlorophenol	95-57-8	ND	1
2,4-Dichlorophenol	120-83-2	ND	1
2,4-Dimethylphenol	105-67-9	ND	1
2,4-Dinitrophenol	51-28-5	ND	5
2-Methyl-4,6-dinitrophenol	534-52-1	ND	5
2-Methylphenol	95-48-7	ND	1
3/4-Methylphenol	N/A	ND	1
2-Nitrophenol	88-75-5	ND	1
4-Nitrophenol	100-02-7	ND	5
Pentachlorophenol	87-86-5	ND	5
Phenol	108-95-2	ND	1
2,4,5-Trichlorophenol	95-95-4	ND	1
2,4,6-Trichlorophenol	88-06-2	ND	1

ND = Not detected at or above indicated Reporting Limit  
 Dilution Factor = 1.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563  
 Batch No.: 12877  
 Matrix: SLUDGE

Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/18/94

### MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (mg/kg)	MS Surrogate Recovery (percent)
Phenol-d5	N/A	10	67
2-Fluorophenol	367-12-4	10	85
2,4,6-Tribromophenol	118-79-6	10	109
Nitrobenzene-d5	N/A	10	83
2-Fluorobiphenyl	321-60-8	10	68
Terphenyl-d14	N/A	10	133

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	10	95
Acenaphthene	83-32-9	10	74
2,4-Dinitrotoluene	121-14-2	10	73
Pyrene	129-00-0	10	107
N-Nitroso-di-n-propylamine	621-64-7	10	90
1,4-Dichlorobenzene	106-46-7	10	74
Pentachlorophenol	87-86-5	10	76
Phenol	108-95-2	10	62
2-Chlorophenol	95-57-8	10	93
4-Chloro-3-methylphenol	59-50-7	10	116
4-Nitrophenol	100-02-7	10	54

### MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (mg/kg)	MSD Surrogate Recovery (percent)
Phenol-d5	N/A	10	55
2-Fluorophenol	367-12-4	10	67
2,4,6-Tribromophenol	118-79-6	10	107
Nitrobenzene-d5	N/A	10	68
2-Fluorobiphenyl	321-60-8	10	67
Terphenyl-d14	N/A	10	125

# California Laboratory Services

Analysis Report: Semivolatile Organic Compounds by GC/MS    EPA Method 8270  
 Sonication, EPA Method 3550

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793563  
 COC Log No.: 17002  
 CLS ID No.: M3563  
 Batch No.: 12877  
 Matrix: SLUDGE

Date Extracted: 01/12/93  
 Date Analyzed: 01/15/93  
 Date Reported: 01/18/94

## MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
1,2,4-Trichlorobenzene	120-82-1	10	77
Acenaphthene	83-32-9	10	66
2,4-Dinitrotoluene	121-14-2	10	67
Pyrene	129-00-0	10	92
N-Nitroso-di-n-propylamine	621-64-7	10	70
1,4-Dichlorobenzene	106-46-7	10	59
Pentachlorophenol	87-86-5	10	107
Phenol	108-95-2	10	52
2-Chlorophenol	95-57-8	10	77
4-Chloro-3-methylphenol	59-50-7	10	106
4-Nitrophenol	100-02-7	10	52

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
1,2,4-Trichlorobenzene	120-82-1	21
Acenaphthene	83-32-9	11
2,4-Dinitrotoluene	121-14-2	9
Pyrene	129-00-0	15
N-Nitroso-di-n-propylamine	621-64-7	25
1,4-Dichlorobenzene	106-46-7	23
Pentachlorophenol	87-86-5	34
Phenol	108-95-2	18
2-Chlorophenol	95-57-8	19
4-Chloro-3-methylphenol	59-50-7	9
4-Nitrophenol	100-02-7	4

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/19/94  
Client ID No.: Comp. Top Layer-Sludge

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-3A  
Batch No.: 12880  
Matrix: SLUDGE

Sample: COMP. TOP LAYER-SLUDGE

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Oil & Grease	N/A	600000	10000

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1000.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/11/94  
Date Received: 01/12/94  
Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/19/94  
Client ID No.: Comp.Lower Layer-Sediment

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563-6A  
Batch No.: 12880  
Matrix: SEDIMENT

Sample: COMP.LOWER LAYER-SEDIMENT

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Oil & Grease	N/A	12000	100

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 10.0000 unless otherwise indicated in parenthesis.

# California Laboratory Services

Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/19/94

CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12880  
Matrix: SLUDGE

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Oil & Grease	N/A	ND	10

ND = Not detected at or above indicated Reporting Limit  
Dilution Factor = 1000.0000 unless otherwise indicated in parentheses.

# California Laboratory Services

**Analysis Report: Total Recoverable Oil and Grease, EPA Method 413.2  
Shaker, DOHS LUFT Method**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793563  
COC Log No.: 17002  
CLS ID No.: M3563  
Batch No.: 12880  
Matrix: SLUDGE**

**Date Extracted: 01/12/94  
Date Analyzed: 01/13/94  
Date Reported: 01/19/94**

### LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Oil & Grease	N/A	50	86

### LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCSD Recovery (percent)
Oil & Grease	N/A	50	88

### LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Oil & Grease	N/A	2





CLIENT NAME: **TKS CONSULTING**  
 ADDRESS: **P.O. BOX 1618**  
**SUDBR CK CA. 95685**  
 PROJECT NAME: **GSA**  
 PROJECT MANAGER: **TIM SMITH** PHONE #: **209-267-0903**  
 SAMPLED BY: **T. SMITH** FAX: **209-267-**  
 JOB DESCRIPTION: **TANK SAMPLE 2436**  
 SITE LOCATION: **ALAMEDA**

CLIENT JOB NUMBER:  
 DESTINATION LABORATORY:  
 XCLS  
 3249 FITZGERALD RD.  
 RANCHO CORDOVA, CA 95742  
 OTHER

ANALYSIS REQUESTED

PRESERVATIVES	TPH-D	TPH-C & DTX	ICAP C, D, P, Ni, Zn				
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FIELD CONDITIONS:

COMPOSITE:

SPECIAL INSTRUCTIONS:  
**2 day TAT**

TURN AROUND TIME NOTE / FIELD READINGS

24 HOURS	48 HOURS	1 WEEK	2 WEEKS	
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DATE	TIME	IDENTIFICATION	SAMPLE		CONTAINER									TURN AROUND TIME				NOTE / FIELD READINGS
			METHOD	MATRIX	NO.	TYPE								24 HOURS	48 HOURS	1 WEEK	2 WEEKS	
1/27/94	1450	GSA TK # 4	GRAB	SED.	1	JAR		X	X	X				X				SAMPLE SECTION SAMPLE Bottle
																		(Handwritten notes)

SUSPECTED CONSTITUENTS: SAMPLE RETENTION TIME: PRESERVATIVES: (1) HCL (2) HNO<sub>3</sub> (3) - COLD (4)

PREPARED BY (SIGN): <i>Carlos C. Garcia</i>	PRINT NAME / COMPANY: <b>TIM SMITH / TKS CONSULTING</b>	DATE / TIME: <b>1/28/94 / 1517</b>	REC'D BY (SIGN): <i>Carlos C. Garcia</i>	PRINT NAME / COMPANY: <b>CLS</b>
	<b>CARLOS C. GARCIA CLS</b>	<b>1-28-94 1900</b>		

REC'D AT LAB BY: *Susan Burns* DATE / TIME: **1-28-94 1900** CONDITIONS / COMMENTS:

SHIPPED VIA:  FED X  UPS  OTHER AIR BILL #

# California Laboratory Services

TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

02/04/94

Attention: Tim Smith

Reference: Analytical Results

---

Project Name: GSA  
Project No.:  
Date Received: 01/28/94  
Chain Of Custody: 2192

CLS ID No.: M3754  
CLS Job No.: 793754

The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
1	2 Days	Metals by EPA 6010
1	2 Days	TPH Diesel by DHS Method - M8015 (soil)
1	2 Days	TPH Gasoline and BTXE (soil)

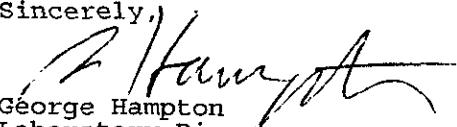
Although sample "GSA TK#4" was found to contain compounds in the retention time range generally associated with diesel fuel, the chromatogram for this sample was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on diesel #2 calibration.

Elevated method 8015/TPH as Gasoline reporting limit for sample "GSA TK#4" is due to the presence of heavier hydrocarbon interference in this sample.

These samples were received by California Laboratory Services in a chilled, intact state and accompanied by a valid chain of custody document.

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

Sincerely,

  
George Hampton  
Laboratory Director

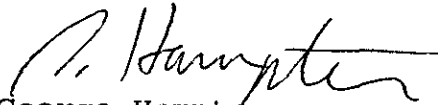
California Laboratory Services

January 20, 1994

Dear Valued Client:

Please note that California Laboratory Services has recently instituted the appropriate methodological changes to TPH-Diesel analysis of soils to allow a 1 mg/kg reporting limit. The previous standard reporting limit was 10 mg/kg. This change was in response to a recent modification by the Tri-Regional Water Quality Control Board requesting lower reporting limits. However, if you have project specific requirements with data quality objectives dictating higher reporting limits, please let us know and we will respond to your needs.

Sincerely,



George Hampton  
Laboratory Director

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 01/31/94  
Date Analyzed: 02/01/94  
Date Reported: 02/01/94  
Client ID No.: GSA TK#4

CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754-1A  
Batch No.: 13008  
Matrix: SEDIMENT

Sample: GSA TK#4

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	220 v	100

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754  
Batch No.: 13008  
Matrix: SEDIMENT

Date Extracted: 01/31/94  
Date Analyzed: 02/01/94  
Date Reported: 02/01/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	1.0

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

# California Laboratory Services

*Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550*

*Client: TRS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685*

*Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903*

*Project: GSA*

*CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754  
Batch No.: 13008  
Matrix: SEDIMENT*

*Date Extracted: 01/31/94  
Date Analyzed: 02/01/94  
Date Reported: 02/01/94*

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Diesel	N/A	10	88

### MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Diesel	N/A	10	105

### RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Diesel	N/A	18

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754  
Batch No.: 13008  
Matrix: SEDIMENT

Date Extracted: 01/31/94  
Date Analyzed: 02/01/94  
Date Reported: 02/01/94

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel	N/A	10	90

# California Laboratory Services

Analysis Report: **BTEX, EPA Method 8020**  
**Purge and Trap, EPA Method 5030**

Client: **TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

Project No.:  
 Contact: **Tim Smith**  
 Phone: **(209)267-0903**

Project: **GSA**

Date Sampled: **01/27/94**  
 Date Received: **01/28/94**  
 Date Extracted: **01/31/94**  
 Date Analyzed: **01/31/94**  
 Date Reported: **02/01/94**  
 Client ID No.: **GSA TK#4**

CLS Contact: **George Hampton**  
 Job No.: **793754**  
 COC Log No.: **2192**  
 CLS ID No.: **M3754-1A**  
 Batch No.: **13003**  
 Matrix: **SEDIMENT**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	76

**Sample: GSA TK#4**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5.0
Toluene	108-88-3	ND	5.0
Ethylbenzene	100-41-4	12	5.0
Xylenes, total	1330-20-7	64	10

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



# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754  
Batch No.: 13003  
Matrix: SEDIMENT

Date Extracted: 01/31/94  
Date Analyzed: 01/31/94  
Date Reported: 02/01/94

### MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	84

### METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5.0
Toluene	108-88-3	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Xylenes, total	1330-20-7	ND	10

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 01/31/94  
Date Analyzed: 01/31/94  
Date Reported: 02/01/94  
Client ID No.: GSA TK#4

CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754-1A  
Batch No.: 13003  
Matrix: SEDIMENT

Sample: GSA TK#4

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND <sup>v</sup>	7.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Extracted: 01/31/94  
Date Analyzed: 01/31/94  
Date Reported: 02/01/94

CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754  
Batch No.: 13003  
Matrix: SEDIMENT

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/31/94  
Date Analyzed: 01/31/94  
Date Reported: 02/01/94

CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754  
Batch No.: 13003  
Matrix: SEDIMENT

## MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Gasoline	N/A	2.5	91

## MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Gasoline	N/A	2.5	84

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Gasoline	N/A	8

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 01/31/94  
Date Analyzed: 01/31/94  
Date Reported: 02/01/94

CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754  
Batch No.: 13003  
Matrix: SEDIMENT

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Gasoline	N/A	2.5	87

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Digested: 01/31/94  
Date Analyzed: 01/31/94  
Date Reported: 02/03/94  
Client ID No.: GSA TK#4

CLS Contact: George Hampton  
Job No.: 793754  
COC Log No.: 2192  
CLS ID No.: M3754-1A  
Batch No.: M940131A  
Matrix: SEDIMENT

Sample: GSA TK#4

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	17	5.0	6010
Ni (Nickel)	7440-02-0	21	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	15	5.0	6010

ND = Not detected at or above indicated Reporting Limit

Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

Date Digested: 01/31/94  
 Date Analyzed: 01/31/94  
 Date Reported: 02/03/94

CLS Contact: George Hampton  
 Job No.: 793754  
 COC Log No.: 2192  
 CLS ID No.: M3754  
 Batch No.: M940131A  
 Matrix: SEDIMENT

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method
Cd (Cadmium)	7440-43-9	ND	1.0	6010
Cr (Chromium)	7440-47-3	ND	5.0	6010
Ni (Nickel)	7440-02-0	ND	5.0	6010
Pb (Lead)	7439-92-1	ND	5.0	6010
Zn (Zinc)	7440-66-6	ND	5.0	6010

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

# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793754  
 COC Log No.: 2192  
 CLS ID No.: M3754  
 Batch No.: M940131A  
 Matrix: SEDIMENT

Date Digested: 01/31/94  
 Date Analyzed: 01/31/94  
 Date Reported: 02/03/94

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/kg)	MS Recovery (percent)
Cd (Cadmium)	7440-43-9	10	87
Cr (Chromium)	7440-47-3	40	BE
Ni (Nickel)	7440-02-0	100	87
Pb (Lead)	7439-92-1	100	94
Zn (Zinc)	7440-66-6	100	90

### MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/kg)	MSD Recovery (percent)
Cd (Cadmium)	7440-43-9	10	85
Cr (Chromium)	7440-47-3	40	BE
Ni (Nickel)	7440-02-0	100	105
Pb (Lead)	7439-92-1	100	91
Zn (Zinc)	7440-66-6	100	101

### RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Cd (Cadmium)	7440-43-9	2
Cr (Chromium)	7440-47-3	BE
Ni (Nickel)	7440-02-0	19
Pb (Lead)	7439-92-1	3
Zn (Zinc)	7440-66-6	12

BE = Matrix spike recovery data can not be produced because background level exceeds matrix spike concentration



# California Laboratory Services

Analysis Report: Metals, EPA Method 6010

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton

Date Reported: 02/03/94

Job No.: 793754

COC Log No.: 2192

CLS ID No.: M3754

Batch No.: M940131A

Matrix: SEDIMENT

## LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Cd (Cadmium)	7440-43-9	10	87
Cr (Chromium)	7440-47-3	40	93
Ni (Nickel)	7440-02-0	100	94
Pb (Lead)	7439-92-1	100	92
Zn (Zinc)	7440-66-6	100	91



CLIENT NAME: TKS CONSULTING  
 ADDRESS: P.O. BOX 1614  
SUTTER CR, CA. 95685  
 PROJECT NAME: USA  
 PROJECT MANAGER: Tom Smith PHONE #: 209-267-0907  
 SAMPLED BY: D. SMITH  
 JOB DESCRIPTION: TANK PULL +  
MW. SAMPLING  
 SITE LOCATION: ALAMEDA

CLIENT JOB NUMBER: \_\_\_\_\_  
 DESTINATION LABORATORY:  
 **CLS**  
 3249 FITZGERALD RD.  
 RANCHO CORDOVA, CA  
 95742  
 **OTHER**  
 PH: (916) 638-7301

ANALYSIS REQUESTED  
 PRESERVATIVES  
 TPH-G + BTEX  
 TPH-D  
 8010  
 5520

FIELD CONDITIONS:  
(cool + sunny)  
 COMPOSITE:  
 SPECIAL INSTRUCTIONS:  
 TURN AROUND TIME  
 NOTE / FIELD READINGS

DATE	TIME	IDENTIFICATION	SAMPLE METHOD	MATRIX	CONTAINER		PRESERVATIVES	24 HOURS	48 HOURS	1 WEEK	2 WEEKS	NOTE / FIELD READINGS			
					NO.	TYPE						CONTRACT	EXTRA		
1/27/94	0920	GSA T1-W7	GRAB TUBE	SOIL	1	B. TUBE	X	X	X	X					
1/27/94	0959	GSA T2-M11	GRAB	SOIL	1	B. Tube	X	X			X	130	120 #	1	
1/27/94	1055	GSA PL-1	GRAB	SOIL	1	B. TUBE	X	X			X	65	65 #	2	
1/28/94	1240	GSA SP-1-1	COMP	↓	1	B. Tube	X	X				130	#	2	
	1242	GSA SP-1-2	COMP		1	B. Tube	X	X					130	SP#	13
	1250	GSA SP-2-1	COMP		1	B. TUBE	X	X					130	"	
	1255	GSA SP-3-1	COMP		1	B. TUBE	X	X					130	"	
	1/20/94	1135	GSA PL SPILL		GRAB	↓	1	Tube	X	X				130	#
1/28/94	1305	GSA MW1-1G			2	VOA	X					65	#	1	
	1310	GSA MW1-1HV			2	VOA			X				75 #	1	
	1315	GSA MW1-1D			1	A. Tube			X				65 #	1	

SUSPECTED CONSTITUENTS: \_\_\_\_\_

RELEASING BY (SIGN): [Signature] PRINT NAME / COMPANY: TIM SMITH / TKS CONSULTING DATE / TIME: 1/28/94 1517

REC'D BY (SIGN): [Signature] PRINT NAME / COMPANY: CARLOS C. GARCIA CLS DATE / TIME: 1-28-94 1900

REC'D AT LAB BY: [Signature] DATE / TIME: 1-28-94 1900 CONDITIONS / COMMENTS: \_\_\_\_\_

SHIPPED VIA:  FED X  UPS  OTHER \_\_\_\_\_ AIR BILL # \_\_\_\_\_

California Laboratory Services

TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

02/15/94

Attention: Tim Smith

Reference: Analytical Results

Project Name: GSA  
Project No.:  
Date Received: 01/28/94  
Chain Of Custody: 17354

CLS ID No.: M3760  
CLS Job No.: 793760

The following analyses were performed on the above referenced project:

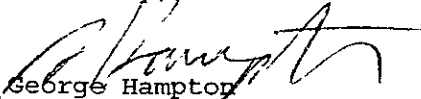
No. of Samples	Turnaround Time	Analysis Description
2	10 Days	Halogenated Volatiles by EPA Method 8010
1	10 Days	TPH Diesel by DHS Method - M8015 (water)
8	10 Days	TPH Diesel by DHS Method - M8015 (soil)
1	10 Days	TPH Gasoline and BTXE (water)
8	10 Days	TPH Gasoline and BTXE (soil)
1	10 Days	Oil and Grease, Standard Methods 5520E/F

Although a number of samples were found to contain compounds in the retention time range generally associated with diesel and/or motor oil, the chromatograms for these samples were not consistent with the expected chromatographic patterns or "fingerprints". However, the reported concentrations are based on diesel fuel and/or motor oil calibrations.

These samples were received by California Laboratory Services in a chilled, intact state and accompanied by a valid chain of custody document.

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

Sincerely,

  
George Hampton  
Laboratory Director

# California Laboratory Services

## POSITIVE ANALYTICAL RESULTS SUMMARY

The purpose of the following positive results summary is to supplement, rather than replace, the comprehensive analytical report. Information such as sample collection, receipt and analysis dates; chain of custody documentation; reporting limits; analytes tested for but not detected; and QA/QC data can be found in the comprehensive analytical report. Responsible evaluation of the results summarized here must take into account all data presented in the comprehensive analytical report.

Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: Tim Smith  
 Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
 Job No.: 793760  
 COC Log No.: 17354  
 CLS ID No.: M3760

Date Received: 01/28/94  
 Date Reported: 02/15/94

### POSITIVE RESULTS

Client	Sample I.D. CLS	Analyte	CAS No.	Results
GSAT1-W7	1A	Oil & Grease	N/A	180 mg/kg
		TPH as Motor Oil	N/A	2.9 mg/kg
GSAT2-M11	2A	TPH as Motor Oil	N/A	5.1 mg/kg
GSAPL-1	3A	TPH as Motor Oil	N/A	3.1 mg/kg
GSASP-1-1	4A	TPH as Gasoline	N/A	2.5 mg/kg
		TPH as Motor Oil	N/A	23 mg/kg
		Toluene	108-88-3	5.3 ug/kg
		Ethylbenzene	100-41-4	9.7 ug/kg
		Xylenes, total	1330-20-7	15 ug/kg
GSASP-1-2	5A	TPH as Gasoline	N/A	36 mg/kg
		TPH as Motor Oil	N/A	390 mg/kg
		Toluene	108-88-3	77 ug/kg
		Ethylbenzene	100-41-4	240 ug/kg
		Xylenes, total	1330-20-7	1600 ug/kg
GSASP-2-1	6A	TPH as Motor Oil	N/A	3200 mg/kg
GSASP-3-1	7A	TPH as Motor Oil	N/A	30 mg/kg
GSAPL Spill	8A	Benzene	71-43-2	11000 ug/kg
		TPH as Diesel	N/A	170000 mg/kg
		TPH as Gasoline	N/A	11000 mg/kg

# California Laboratory Services

## POSITIVE ANALYTICAL RESULTS SUMMARY

The purpose of the following positive results summary is to supplement, rather than replace, the comprehensive analytical report. Information such as sample collection, receipt and analysis dates; chain of custody documentation; reporting limits; analytes tested for but not detected; and QA/QC data can be found in the comprehensive analytical report. Responsible evaluation of the results summarized here must take into account all data presented in the comprehensive analytical report.

Client: **TKS Consulting**  
 P.O. Box 1618  
 Sutter Creek, CA 95685

Project No.:  
 Contact: **Tim Smith**  
 Phone: (209)267-0903

Project: **GSA**

CLS Contact: **George Hampton**  
 Job No.: **793760**  
 COC Log No.: **17354**  
 CLS ID No.: **M3760**

Date Received: **01/28/94**  
 Date Reported: **02/15/94**

### POSITIVE RESULTS (cont.)

Client	Sample I.D. CLS	Analyte	CAS No.	Results
		TPH as Motor Oil	N/A	310000 mg/kg
		Toluene	108-88-3	75000 ug/kg
		Ethylbenzene	100-41-4	51000 ug/kg
		Xylenes, total	1330-20-7	250000 ug/kg
GSAMW1-1G	9A	Benzene	71-43-2	0.6 ug/L
		Ethylbenzene	100-41-4	0.4 ug/L
GSAMW1-1HV	10A	1,2-Dichloroethene, total	540-59-0	1.5 ug/L
		Tetrachloroethene	127-18-4	1.0 ug/L
		Trichloroethene	79-01-6	3.0 ug/L
GSAMW1-1D	11A	TPH as Motor Oil	N/A	0.52 mg/L

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209) 267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793760**  
**COC Log No.: 17354**  
**CLS ID No.: M3760-10A**  
**Batch No.: 13046**  
**Matrix: WATER**

**Date Sampled: 01/28/94**  
**Date Received: 01/28/94**  
**Date Extracted: 02/07/94**  
**Date Analyzed: 02/07/94**  
**Date Reported: 02/14/94**  
**Client ID No.: GSAMW1-1HV**

### SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	106

**Sample: GSAMW1-1HV**

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	0.5
Bromomethane	74-83-9	ND	0.5
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	0.5
2-Chloroethyl vinyl ether	110-75-8	ND	0.5
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	0.5
Dibromochloromethane	124-48-1	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	0.5
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	1.5	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	1.0	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	3.0	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	0.5

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

# California Laboratory Services

Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13046  
Matrix: WATER

Date Extracted: 02/07/94  
Date Analyzed: 02/07/94  
Date Reported: 02/14/94

### MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	102

### METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Bromodichloromethane	72-27-4	ND	0.5
Bromoform	75-25-2	ND	0.5
Bromomethane	74-83-9	ND	0.5
Carbon tetrachloride	56-23-5	ND	0.5
Chlorobenzene	108-90-7	ND	0.5
Chloroethane	75-00-3	ND	0.5
2-Chloroethyl vinyl ether	110-75-8	ND	0.5
Chloroform	67-66-3	ND	0.5
Chloromethane	74-87-3	ND	0.5
Dibromochloromethane	124-48-1	ND	0.5
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.5
1,4-Dichlorobenzene	106-46-7	ND	0.5
Dichlorodifluoromethane	75-71-8	ND	0.5
1,1-Dichloroethane	75-34-3	ND	0.5
1,2-Dichloroethane	107-06-2	ND	0.5
1,1-Dichloroethene	75-35-4	ND	0.5
1,2-Dichloroethene, total	540-59-0	ND	0.5
1,2-Dichloropropane	78-87-5	ND	0.5
cis-1,3-Dichloropropene	10061-01-5	ND	0.5
trans-1,3-Dichloropropene	10061-02-6	ND	0.5
Methylene chloride	75-09-2	ND	0.5
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5
Tetrachloroethene	127-18-4	ND	0.5
1,1,1-Trichloroethane	71-55-6	ND	0.5
1,1,2-Trichloroethane	79-00-5	ND	0.5
Trichloroethene	79-01-6	ND	0.5
Trichlorofluoromethane	75-69-4	ND	0.5
1,1,2-Trichloro 1,2,2-trifluoroethane	76-13-1	ND	0.5
Vinyl chloride	75-01-4	ND	0.5

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

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting**  
P.O. Box 1618  
Sutter Creek, CA 95685

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793760**  
**COC Log No.: 17354**  
**CLS ID No.: M3760**  
**Batch No.: 13046**  
**Matrix: WATER**

**Date Extracted: 02/07/94**  
**Date Analyzed: 02/07/94**  
**Date Reported: 02/14/94**

### MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/L)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	106

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/L)	MS Recovery (percent)
Chlorobenzene	108-90-7	20	103
1,1-Dichloroethene	75-35-4	20	114
Trichloroethene	79-01-6	20	94

### MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/L)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	106

### MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/L)	MSD Recovery (percent)
Chlorobenzene	108-90-7	20	107
1,1-Dichloroethene	75-35-4	20	112
Trichloroethene	79-01-6	20	93

### RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	4
1,1-Dichloroethene	75-35-4	2
Trichloroethene	79-01-6	1



# California Laboratory Services

Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Extracted: 02/07/94  
Date Analyzed: 02/07/94  
Date Reported: 02/14/94

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13046  
Matrix: WATER

## LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	105

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/L)	LCS Recovery (percent)
Chlorobenzene	108-90-7	20	109
1,1-Dichloroethene	75-35-4	20	105
Trichloroethene	79-01-6	20	94

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No. :  
Contact: Tim Smith  
Phone: (209) 267-0903**

**Project: GSA**

**Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/04/94  
Date Reported: 02/08/94  
Client ID No.: GSAT1-W7**

**CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-1A  
Batch No.: 13045  
Matrix: SOIL**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	99

**Sample: GSAT1-W7**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5.0
Bromoform	75-25-2	ND	5.0
Bromomethane	74-83-9	ND	5.0
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	5.0
2-Chloroethyl vinyl ether	110-75-8	ND	5.0
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	5.0
Dibromochloromethane	124-48-1	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
Dichlorodifluoromethane	75-71-8	ND	5.0
1,1-Dichloroethane	75-34-3	ND	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,1-Dichloroethene	75-35-4	ND	5.0
1,2-Dichloroethene, total	540-59-0	ND	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0
Methylene chloride	75-09-2	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
Tetrachloroethene	127-18-4	ND	5.0
1,1,1-Trichloroethane	71-55-6	ND	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
Trichloroethene	79-01-6	ND	5.0
Trichlorofluoromethane	75-69-4	ND	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0
Vinyl chloride	75-01-4	ND	5.0

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

# California Laboratory Services

**Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13045  
Matrix: SOIL**

**Date Extracted: 02/04/94  
Date Analyzed: 02/04/94  
Date Reported: 02/08/94**

### MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	102

### METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Bromodichloromethane	72-27-4	ND	5.0
Bromoform	75-25-2	ND	5.0
Bromomethane	74-83-9	ND	5.0
Carbon tetrachloride	56-23-5	ND	5.0
Chlorobenzene	108-90-7	ND	5.0
Chloroethane	75-00-3	ND	5.0
2-Chloroethyl vinyl ether	110-75-8	ND	5.0
Chloroform	67-66-3	ND	5.0
Chloromethane	74-87-3	ND	5.0
Dibromochloromethane	124-48-1	ND	5.0
1,2-Dichlorobenzene	95-50-1	ND	5.0
1,3-Dichlorobenzene	541-73-1	ND	5.0
1,4-Dichlorobenzene	106-46-7	ND	5.0
Dichlorodifluoromethane	75-71-8	ND	5.0
1,1-Dichloroethane	75-34-3	ND	5.0
1,2-Dichloroethane	107-06-2	ND	5.0
1,1-Dichloroethene	75-35-4	ND	5.0
1,2-Dichloroethene, total	540-59-0	ND	5.0
1,2-Dichloropropane	78-87-5	ND	5.0
cis-1,3-Dichloropropene	10061-01-5	ND	5.0
trans-1,3-Dichloropropene	10061-02-6	ND	5.0
Methylene chloride	75-09-2	ND	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0
Tetrachloroethene	127-18-4	ND	5.0
1,1,1-Trichloroethane	71-55-6	ND	5.0
1,1,2-Trichloroethane	79-00-5	ND	5.0
Trichloroethene	79-01-6	ND	5.0
Trichlorofluoromethane	75-69-4	ND	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	5.0
Vinyl chloride	75-01-4	ND	5.0

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

# California Laboratory Services

Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13045  
Matrix: SOIL

Date Extracted: 02/04/94  
Date Analyzed: 02/04/94  
Date Reported: 02/08/94

### MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/kg)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	94

### MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/kg)	MS Recovery (percent)
Chlorobenzene	108-90-7	100	103
1,1-Dichloroethene	75-35-4	100	104
Trichloroethene	79-01-6	100	93

### MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/kg)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	92

### MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/kg)	MSD Recovery (percent)
Chlorobenzene	108-90-7	100	107
1,1-Dichloroethene	75-35-4	100	107
Trichloroethene	79-01-6	100	96

### RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Chlorobenzene	108-90-7	4
1,1-Dichloroethene	75-35-4	3
Trichloroethene	79-01-6	3

# California Laboratory Services

Analysis Report: Halogenated Volatile Organics, EPA Method 8010  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13045  
Matrix: SOIL

Date Extracted: 02/04/94  
Date Analyzed: 02/04/94  
Date Reported: 02/08/94

## LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	103

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
Chlorobenzene	108-90-7	100	114
1,1-Dichloroethene	75-35-4	100	106
Trichloroethene	79-01-6	100	103

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Separatory Funnel, EPA Method 3510

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/28/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/10/94  
Date Reported: 02/15/94  
Client ID No.: GSAMW1-1D

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-11A  
Batch No.: 13050  
Matrix: WATER

Sample: GSAMW1-1D

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
TPH as Diesel	N/A	ND	0.05
TPH as Motor Oil	N/A	0.52	0.20

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Separatory Funnel, EPA Method 3510

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13050  
Matrix: WATER

Date Extracted: 02/04/94  
Date Analyzed: 02/10/94  
Date Reported: 02/15/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
TPH as Diesel	N/A	ND	0.05
TPH as Motor Oil	N/A	ND	0.20

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

# California Laboratory Services

**Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
 Separatory Funnel, EPA Method 3510**

**Client: TKS Consulting  
 P.O. Box 1618  
 Sutter Creek, CA 95685**

**Project No.:  
 Contact: Tim Smith  
 Phone: (209) 267-0903**

**Project: GSA  
 Date Extracted: 02/04/94  
 Date Analyzed: 02/10/94  
 Date Reported: 02/15/94**

**CLS Contact: George Hampton  
 Job No.: 793760  
 COC Log No.: 17354  
 CLS ID No.: M3760  
 Batch No.: 13050  
 Matrix: WATER**

### LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Diesel	N/A	1.0	105

### LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/L)	LCSD Recovery (percent)
Diesel	N/A	1.0	104

### LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel	N/A	1



# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-1A  
Batch No.: 13049  
Matrix: SOIL

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94  
Client ID No.: GSAT1-W7

Sample: GSAT1-W7

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	1.0
TPH as Motor Oil	N/A	2.9	2.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-2A  
Batch No.: 13049  
Matrix: SOIL

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94  
Client ID No.: GSAT2-M11

Sample: GSAT2-M11

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	1.0
TPH as Motor Oil	N/A	5.1	2.0

ND = Not detected at or above indicated Reporting Limit

Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94  
Client ID No.: GSAPL-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-3A  
Batch No.: 13049  
Matrix: SOIL

Sample: GSAPL-1

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	1.0
TPH as Motor Oil	N/A	3.1	2.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94  
Client ID No.: GSASP-1-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-4A  
Batch No.: 13049  
Matrix: SOIL

Sample: GSASP-1-1

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	3.0
TPH as Motor Oil	N/A	23	6.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94  
Client ID No.: GSASP-1-2

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-5A  
Batch No.: 13049  
Matrix: SOIL

Sample: GSASP-1-2

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	20
TPH as Motor Oil	N/A	390	40

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94  
Client ID No.: GSASP-2-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-6A  
Batch No.: 13049  
Matrix: SOIL

Sample: GSASP-2-1

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	200
TPH as Motor Oil	N/A	3200	400

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-7A  
Batch No.: 13049  
Matrix: SOIL

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94  
Client ID No.: GSASP-3-1

Sample: GSASP-3-1

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	5.0
TPH as Motor Oil	N/A	30	10

ND = Not detected at or above indicated Reporting Limit

Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/20/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94  
Client ID No.: GSAPL Spill

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-8A  
Batch No.: 13049  
Matrix: SOIL

Sample: GSAPL SPILL

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	170000	100000
TPH as Motor Oil	N/A	310000	200000

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



# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13049  
Matrix: SOIL

Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	1.0
TPH as Motor Oil	N/A	ND	2.0

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

# California Laboratory Services

**Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No. :  
Contact: Tim Smith  
Phone: (209) 267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13049  
Matrix: SOIL**

**Date Extracted: 02/04/94  
Date Analyzed: 02/11/94  
Date Reported: 02/15/94**

### LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel	N/A	10	71

### LAB CONTROL SAMPLE DUPLICATE

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Diesel	N/A	10	90

### LCS RPD

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Diesel	N/A	24

# California Laboratory Services

Analysis Report: BTEX, EPA Method 602  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/28/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAMW1-1G

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-9A  
Batch No.: 13032  
Matrix: WATER

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	105

Sample: GSAMW1-1G

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Benzene	71-43-2	0.6	0.3
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	0.4	0.3
Xylenes, total	1330-20-7	ND	0.6

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 602  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13032  
Matrix: WATER

Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94

## MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/L)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	20	107

## METHOD BLANK

Analyte	CAS No.	Results (ug/L)	Rep. Limit (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, total	1330-20-7	ND	0.6

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/28/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAMW1-1G

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-9A  
Batch No.: 13032  
Matrix: WATER

Sample: GSAMW1-1G

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
TPH as Gasoline	N/A	ND	0.05

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13032  
Matrix: WATER

Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)
TPH as Gasoline	N/A	ND	0.05

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13032  
Matrix: WATER

Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94

## MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Gasoline	N/A	0.5	98

## MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Gasoline	N/A	0.5	95

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Gasoline	N/A	3

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13032  
Matrix: WATER

Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Gasoline	N/A	0.5	98



# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAT1-W7

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-1A  
Batch No.: 13031  
Matrix: SOIL

Sample: GSAT1-W7

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAT2-M11

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-2A  
Batch No.: 13031  
Matrix: SOIL

Sample: GSAT2-M11

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAPL-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-3A  
Batch No.: 13031  
Matrix: SOIL

Sample: GSAPL-1

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSASP-1-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-4A  
Batch No.: 13031  
Matrix: SOIL

Sample: GSASP-1-1

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	2.5	1.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSASP-1-2

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-5A  
Batch No.: 13031  
Matrix: SOIL

Sample: GSASP-1-2

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	36	10

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSASP-2-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-6A  
Batch No.: 13031  
Matrix: SOIL

Sample: GSASP-2-1

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSASP-3-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-7A  
Batch No.: 13031  
Matrix: SOIL

Sample: GSASP-3-1

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

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

# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/20/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAPL Spill

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-8A  
Batch No.: 13031  
Matrix: SOIL

Sample: GSAPL SPILL

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	11000	2000

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



# California Laboratory Services

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13031  
Matrix: SOIL

Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Gasoline	N/A	ND	1.0

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAT1-W7

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-1A  
Batch No.: 13031  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	83

Sample: GSAT1-W7

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5.0
Toluene	108-88-3	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Xylenes, total	1330-20-7	ND	10

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAT2-M11

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-2A  
Batch No.: 13031  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	82

Sample: GSAT2-M11

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5.0
Toluene	108-88-3	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Xylenes, total	1330-20-7	ND	10

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

# California Laboratory Services

**Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-3A  
Batch No.: 13031  
Matrix: SOIL**

**Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAPL-1**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	82
<b>Sample: GSAPL-1</b>			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5.0
Toluene	108-88-3	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Xylenes, total	1330-20-7	ND	10

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSASP-1-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-4A  
Batch No.: 13031  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	76

Sample: GSASP-1-1

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5.0
Toluene	108-88-3	5.3	5.0
Ethylbenzene	100-41-4	9.7	5.0
Xylenes, total	1330-20-7	15	10

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

# California Laboratory Services

Analysis Report: **BTEX, EPA Method 8020**  
**Purge and Trap, EPA Method 5030**

Client: **TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

Project No.:  
 Contact: **Tim Smith**  
 Phone: **(209) 267-0903**

Project: **GSA**

CLS Contact: **George Hampton**  
 Job No.: **793760**  
 COC Log No.: **17354**  
 CLS ID No.: **M3760-5A**  
 Batch No.: **13031**  
 Matrix: **SOIL**

Date Sampled: **01/27/94**  
 Date Received: **01/28/94**  
 Date Extracted: **02/03/94**  
 Date Analyzed: **02/03/94**  
 Date Reported: **02/04/94**  
 Client ID No.: **GSASP-1-2**

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	1000	102

**Sample: GSASP-1-2**

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	50
Toluene	108-88-3	77	50
Ethylbenzene	100-41-4	240	50
Xylenes, total	1330-20-7	1600	100

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSASP-2-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-6A  
Batch No.: 13031  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	80

Sample: GSASP-2-1

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5.0
Toluene	108-88-3	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Xylenes, total	1330-20-7	ND	10

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSASP-3-1

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-7A  
Batch No.: 13031  
Matrix: SOIL

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	82
<b>Sample: GSASP-3-1</b>			

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5.0
Toluene	108-88-3	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Xylenes, total	1330-20-7	ND	10

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



# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760-8A  
Batch No.: 13031  
Matrix: SOIL

Date Sampled: 01/20/94  
Date Received: 01/28/94  
Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94  
Client ID No.: GSAPL Spill

## SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	200000	85

## Sample: GSAPL SPILL

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	11000	10000
Toluene	108-88-3	75000	10000
Ethylbenzene	100-41-4	51000	10000
Xylenes, total	1330-20-7	250000	20000

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

# California Laboratory Services

Analysis Report: **BTEX, EPA Method 8020**  
**Purge and Trap, EPA Method 5030**

Client: **TKS Consulting**  
**P.O. Box 1618**  
**Sutter Creek, CA 95685**

Project No.:  
 Contact: **Tim Smith**  
 Phone: **(209)267-0903**

Project: **GSA**

CLS Contact: **George Hampton**  
 Job No.: **793760**  
 COC Log No.: **17354**  
 CLS ID No.: **M3760**  
 Batch No.: **13031**  
 Matrix: **SOIL**

Date Extracted: **02/03/94**  
 Date Analyzed: **02/03/94**  
 Date Reported: **02/04/94**

## MB SURROGATE

Analyte	CAS No.	Surr Conc. (ug/kg)	MB Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	84

## METHOD BLANK

Analyte	CAS No.	Results (ug/kg)	Rep. Limit (ug/kg)
Benzene	71-43-2	ND	5.0
Toluene	108-88-3	ND	5.0
Ethylbenzene	100-41-4	ND	5.0
Xylenes, total	1330-20-7	ND	10

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13031  
Matrix: SOIL

Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94

## MS SURROGATE

Analyte	CAS No.	MS Surr. Conc. (ug/kg)	MS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	79

## MATRIX SPIKE

Analyte	CAS No.	MS Conc. (ug/kg)	MS Recovery (percent)
Benzene	71-43-2	100	100
Toluene	108-88-3	100	99
Ethylbenzene	100-41-4	100	103
Xylenes, total	1330-20-7	300	99

## MSD SURROGATE

Analyte	CAS No.	Surr. Conc. (ug/kg)	MSD Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	79

## MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (ug/kg)	MSD Recovery (percent)
Benzene	71-43-2	100	102
Toluene	108-88-3	100	101
Ethylbenzene	100-41-4	100	106
Xylenes, total	1330-20-7	300	101

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13031  
Matrix: SOIL

Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94

## RELATIVE % DIFFERENCE

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

# California Laboratory Services

Analysis Report: BTEX, EPA Method 8020  
Purge and Trap, EPA Method 5030

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13031  
Matrix: SOIL

Date Extracted: 02/03/94  
Date Analyzed: 02/03/94  
Date Reported: 02/04/94

## LCS SURROGATE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Surrogate Recovery (percent)
o-Chlorotoluene	95-49-8	100	78

## LAB CONTROL SAMPLE

Analyte	CAS No.	LCS Conc. (ug/kg)	LCS Recovery (percent)
Benzene	71-43-2	100	96
Toluene	108-88-3	100	96
Ethylbenzene	100-41-4	100	100
Xylenes, total	1330-20-7	300	97

# California Laboratory Services

Analysis Report: Oil & Grease, Standard Methods 5520E/F  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Extracted: 02/04/94  
Date Analyzed: 02/07/94  
Date Reported: 02/08/94

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13048  
Matrix: SOIL

## ANALYTE

Sample I.D.	Oil & Grease
Client	CLS (mg/kg)

GSAT1-W7	1A 180
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Rep. Limit 50

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

# California Laboratory Services

Analysis Report: Oil & Grease, Standard Methods 5520E/F  
Shaker, DOHS LUFT Method

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760  
Batch No.: 13048  
Matrix: SOIL

Date Extracted: 02/04/94  
Date Analyzed: 02/07/94  
Date Reported: 02/08/94

## METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
Oil & Grease	N/A	ND	50

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

# California Laboratory Services

**Analysis Report: Oil & Grease, Standard Methods 5520E/F  
Shaker, DOHS LUFT Method**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793760**  
**COC Log No.: 17354**  
**CLS ID No.: M3760**  
**Batch No.: 13048**  
**Matrix: SOIL**

**Date Extracted: 02/04/94**  
**Date Analyzed: 02/07/94**  
**Date Reported: 02/08/94**

**LAB CONTROL SAMPLE**

Analyte	CAS No.	LCS Conc. (mg/kg)	LCS Recovery (percent)
Oil & Grease	N/A	1000	86

**LAB CONTROL SAMPLE DUPLICATE**

Analyte	CAS No.	LCS Conc. (mg/kg)	LCSD Recovery (percent)
Oil & Grease	N/A	1000	88

**LCS RPD**

Analyte	CAS No.	LCS Relative Percent Difference (percent)
Oil & Grease	N/A	2



# California Laboratory Services

TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

03/07/94

Attention: Tim Smith

Reference: Analytical Results

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Project Name: GSA	CLS ID No.: M3760A
Project No.:	CLS Job No.: 793760
Date Received: 01/28/94	
Chain Of Custody: 17354	

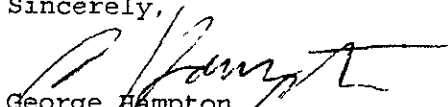
The following analyses were performed on the above referenced project:

<u>No. of Samples</u>	<u>Turnaround Time</u>	<u>Analysis Description</u>
4	10 Days	CAM Metals, STLC, EPA Method 6010/7000

These samples were received by California Laboratory Services in a chilled, intact state and accompanied by a valid chain of custody document.

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

Sincerely,

  
George Hampton  
Laboratory Director

# California Laboratory Services

Analysis Report: CAM Metals, STLC, EPA Method 6010/7000  
CA Waste Extraction Test (WET)

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209) 267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760A-4A  
Batch No.: M940228A  
Matrix: SOIL

Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Leached: 02/23/94  
Date Analyzed: 03/01/94  
Date Reported: 03/07/94  
Client ID No.: GSASP-1-1

Sample: GSASP-1-1

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Method
Ag (Silver)	7440-22-4	ND	0.50	6010
As (Arsenic)	7440-38-2	0.071 5	0.050	7060
Ba (Barium)	7440-39-3	2.7 10 <sup>0</sup>	0.50	6010
Be (Beryllium)	7440-41-7	ND .75	0.10	6010
Cd (Cadmium)	7440-43-9	ND 1.0	0.10	6010
Co (Cobalt)	7440-48-4	ND	0.50	6010
Cr (Chromium)	7440-47-3	ND 5	0.50	6010
Cu (Copper)	7440-50-8	0.50 25	0.50	6010
Hg (Mercury)	7439-97-6	ND .2	0.050	7471
Mo (Molybdenum)	7439-98-7	ND 3 <sup>00</sup>	0.50	6010
Ni (Nickel)	7440-02-0	ND 2 <sup>0</sup>	0.50	6010
Pb (Lead)	7439-92-1	ND 5	0.50	6010
Sb (Antimony)	7440-36-0	ND 15	0.50	6010
Se (Selenium)	7783-00-8	ND 1	0.050	7740
Tl (Thallium)	7440-28-0	ND 7	5.0	6010
V (Vanadium)	7440-62-2	ND 24	0.50	6010
Zn (Zinc)	7440-66-6	1.7 2 <sup>00</sup>	0.50	6010

ND = Not detected at or above indicated Reporting Limit  
Rep. Limit = Reporting Limit

# California Laboratory Services

**Analysis Report: CAM Metals, STLC, EPA Method 6010/7000  
CA Waste Extraction Test (WET)**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760A-5A  
Batch No.: M940228A  
Matrix: SOIL**

**Date Sampled: 01/27/94  
Date Received: 01/28/94  
Date Leached: 02/23/94  
Date Analyzed: 03/01/94  
Date Reported: 03/07/94  
Client ID No.: GSASP-1-2**

**Sample: GSASP-1-2**

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Method
Ag (Silver)	7440-22-4	ND	0.50	6010
As (Arsenic)	7440-38-2	0.059	0.050	7060
Ba (Barium)	7440-39-3	2.3	0.50	6010
Be (Beryllium)	7440-41-7	ND	0.10	6010
Cd (Cadmium)	7440-43-9	ND	0.10	6010
Co (Cobalt)	7440-48-4	ND	0.50	6010
Cr (Chromium)	7440-47-3	ND	0.50	6010
Cu (Copper)	7440-50-8	ND	0.50	6010
Hg (Mercury)	7439-97-6	ND	0.050	7471
Mo (Molybdenum)	7439-98-7	ND	0.50	6010
Ni (Nickel)	7440-02-0	ND	0.50	6010
Pb (Lead)	7439-92-1	0.99	0.50	6010
Sb (Antimony)	7440-36-0	ND	0.50	6010
Se (Selenium)	7783-00-8	ND	0.050	7740
Tl (Thallium)	7440-28-0	ND	5.0	6010
V (Vanadium)	7440-62-2	ND	0.50	6010
Zn (Zinc)	7440-66-6	1.4	0.50	6010

ND = Not detected at or above indicated Reporting Limit  
Rep. Limit - Reporting Limit

# California Laboratory Services

**Analysis Report: CAM Metals, STLC, EPA Method 6010/7000  
CA Waste Extraction Test (WET)**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793760**  
**COC Log No.: 17354**  
**CLS ID No.: M3760A-6A**  
**Batch No.: M940228A**  
**Matrix: SOIL**

**Date Sampled: 01/27/94**  
**Date Received: 01/28/94**  
**Date Leached: 02/23/94**  
**Date Analyzed: 03/01/94**  
**Date Reported: 03/07/94**  
**Client ID No.: GSASP-2-1**

**Sample: GSASP-2-1**

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Method
Ag (Silver)	7440-22-4	ND	0.50	6010
As (Arsenic)	7440-38-2	0.22	0.050	7060
Ba (Barium)	7440-39-3	1.9	0.50	6010
Be (Beryllium)	7440-41-7	ND	0.10	6010
Cd (Cadmium)	7440-43-9	ND	0.10	6010
Co (Cobalt)	7440-48-4	ND	0.50	6010
Cr (Chromium)	7440-47-3	ND	0.50	6010
Cu (Copper)	7440-50-8	ND	0.50	6010
Hg (Mercury)	7439-97-6	ND	0.050	7471
Mo (Molybdenum)	7439-98-7	ND	0.50	6010
Ni (Nickel)	7440-02-0	ND	0.50	6010
Pb (Lead)	7439-92-1	1.4	0.50	6010
Sb (Antimony)	7440-36-0	ND	0.50	6010
Se (Selenium)	7783-00-8	ND	0.050	7740
Tl (Thallium)	7440-28-0	ND	5.0	6010
V (Vanadium)	7440-62-2	ND	0.50	6010
Zn (Zinc)	7440-66-6	1.3	0.50	6010

ND = Not detected at or above indicated Reporting Limit  
Rep. Limit = Reporting Limit

# California Laboratory Services

**Analysis Report: CAM Metals, STLC, EPA Method 6010/7000  
CA Waste Extraction Test (WET)**

**Client: TKS Consulting**  
P.O. Box 1618  
Sutter Creek, CA 95685

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**CLS Contact: George Hampton**  
**Job No.: 793760**  
**COC Log No.: 17354**  
**CLS ID No.: M3760A-7A**  
**Batch No.: M940228A**  
**Matrix: SOIL**

**Date Sampled: 01/27/94**  
**Date Received: 01/28/94**  
**Date Leached: 02/23/94**  
**Date Analyzed: 03/01/94**  
**Date Reported: 03/07/94**  
**Client ID No.: GSASP-3-1**

**Sample: GSASP-3-1**

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Method
Ag (Silver)	7440-22-4	ND	0.50	6010
As (Arsenic)	7440-38-2	0.078	0.050	7060
Ba (Barium)	7440-39-3	2.9	0.50	6010
Be (Beryllium)	7440-41-7	ND	0.10	6010
Cd (Cadmium)	7440-43-9	ND	0.10	6010
Co (Cobalt)	7440-48-4	ND	0.50	6010
Cr (Chromium)	7440-47-3	ND	0.50	6010
Cu (Copper)	7440-50-8	ND	0.50	6010
Hg (Mercury)	7439-97-6	ND	0.050	7471
Mo (Molybdenum)	7439-98-7	ND	0.50	6010
Ni (Nickel)	7440-02-0	ND	0.50	6010
Pb (Lead)	7439-92-1	ND	0.50	6010
Sb (Antimony)	7440-36-0	ND	0.50	6010
Se (Selenium)	7783-00-8	ND	0.050	7740
Tl (Thallium)	7440-28-0	ND	5.0	6010
V (Vanadium)	7440-62-2	ND	0.50	6010
Zn (Zinc)	7440-66-6	1.3	0.50	6010

ND = Not detected at or above indicated Reporting Limit  
Rep. Limit = Reporting Limit

# California Laboratory Services

**Analysis Report: CAM Metals, STLC, EPA Method 6010/7000  
CA Waste Extraction Test (WET)**

**Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685**

**Project No.:**  
**Contact: Tim Smith**  
**Phone: (209)267-0903**

**Project: GSA**

**Date Leached: 02/23/94**  
**Date Analyzed: 03/01/94**  
**Date Reported: 03/07/94**

**CLS Contact: George Hampton**  
**Job No.: 793760**  
**COC Log No.: 17354**  
**CLS ID No.: M3760A**  
**Batch No.: M940228A**  
**Matrix: SOIL**

## METHOD BLANK

Analyte	CAS No.	Results (mg/L)	Rep. Limit (mg/L)	Method
Ag (Silver)	7440-22-4	ND	0.50	6010
As (Arsenic)	7440-38-2	ND	0.050	7060
Ba (Barium)	7440-39-3	ND	0.50	6010
Be (Beryllium)	7440-41-7	ND	0.10	6010
Cd (Cadmium)	7440-43-9	ND	0.10	6010
Co (Cobalt)	7440-48-4	ND	0.50	6010
Cr (Chromium)	7440-47-3	ND	0.50	6010
Cu (Copper)	7440-50-8	ND	0.50	6010
Hg (Mercury)	7439-97-6	ND	0.050	7471
Mo (Molybdenum)	7439-98-7	ND	0.50	6010
Ni (Nickel)	7440-02-0	ND	0.50	6010
Pb (Lead)	7439-92-1	ND	0.50	6010
Sb (Antimony)	7440-36-0	ND	0.50	6010
Se (Selenium)	7783-00-8	ND	0.050	7740
Tl (Thallium)	7440-28-0	ND	5.0	6010
V (Vanadium)	7440-62-2	ND	0.50	6010
Zn (Zinc)	7440-66-6	ND	0.50	6010

ND = Not detected at or above indicated Reporting Limit  
Rep. Limit = Reporting Limit

# California Laboratory Services

Analysis Report: CAM Metals, STLC, EPA Method 6010/7000  
CA Waste Extraction Test (WET)

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760A  
Batch No.: M940228A  
Matrix: SOIL

Date Leached: 02/23/94  
Date Analyzed: 03/01/94  
Date Reported: 03/07/94

## MATRIX SPIKE

Analyte	CAS No.	MS Conc. (mg/L)	MS Recovery (percent)
Ag (Silver)	7440-22-4	1.0	88
As (Arsenic)	7440-38-2	0.40	82
Ba (Barium)	7440-39-3	20	80
Be (Beryllium)	7440-41-7	0.50	86
Cd (Cadmium)	7440-43-9	0.50	87
Co (Cobalt)	7440-48-4	5.0	89
Cr (Chromium)	7440-47-3	2.0	87
Cu (Copper)	7440-50-8	2.5	90
Hg (Mercury)	7439-97-6	0.025	84
Mo (Molybdenum)	7439-98-7	5.0	97
Ni (Nickel)	7440-02-0	5.0	86
Pb (Lead)	7439-92-1	5.0	88
Sb (Antimony)	7440-36-0	5.0	108
Se (Selenium)	7783-00-8	0.30	63
Tl (Thallium)	7440-28-0	20	89
V (Vanadium)	7440-62-2	5.0	86
Zn (Zinc)	7440-66-6	5.0	95

# California Laboratory Services

Analysis Report: CAM Metals, STLC, EPA Method 6010/7000  
CA Waste Extraction Test (WET)

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

Date Leached: 02/23/94  
Date Analyzed: 03/01/94  
Date Reported: 03/07/94

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760A  
Batch No.: M940228A  
Matrix: SOIL

## MATRIX SPIKE DUPLICATE

Analyte	CAS No.	MSD Conc. (mg/L)	MSD Recovery (percent)
Ag (Silver)	7440-22-4	1.0	89
As (Arsenic)	7440-38-2	0.40	80
Ba (Barium)	7440-39-3	20	81
Be (Beryllium)	7440-41-7	0.50	86
Cd (Cadmium)	7440-43-9	0.50	88
Co (Cobalt)	7440-48-4	5.0	89
Cr (Chromium)	7440-47-3	2.0	86
Cu (Copper)	7440-50-8	2.5	90
Hg (Mercury)	7439-97-6	0.025	90
Mo (Molybdenum)	7439-98-7	5.0	96
Ni (Nickel)	7440-02-0	5.0	86
Pb (Lead)	7439-92-1	5.0	89
Sb (Antimony)	7440-36-0	5.0	109
Se (Selenium)	7783-00-8	0.30	62
Tl (Thallium)	7440-28-0	20	88
V (Vanadium)	7440-62-2	5.0	87
Zn (Zinc)	7440-66-6	5.0	93



# California Laboratory Services

Analysis Report: CAM Metals, STLC, EPA Method 6010/7000  
CA Waste Extraction Test (WET)

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760A  
Batch No.: M940228A  
Matrix: SOIL

Date Leached: 02/23/94  
Date Analyzed: 03/01/94  
Date Reported: 03/07/94

## RELATIVE % DIFFERENCE

Analyte	CAS No.	Relative Percent Difference (percent)
Ag (Silver)	7440-22-4	1
As (Arsenic)	7440-38-2	2
Ba (Barium)	7440-39-3	1
Be (Beryllium)	7440-41-7	0
Cd (Cadmium)	7440-43-9	1
Co (Cobalt)	7440-48-4	0
Cr (Chromium)	7440-47-3	1
Cu (Copper)	7440-50-8	0
Hg (Mercury)	7439-97-6	7
Mo (Molybdenum)	7439-98-7	1
Ni (Nickel)	7440-02-0	0
Pb (Lead)	7439-92-1	1
Sb (Antimony)	7440-36-0	1
Se (Selenium)	7783-00-8	2
Tl (Thallium)	7440-28-0	1
V (Vanadium)	7440-62-2	1
Zn (Zinc)	7440-66-6	2

# California Laboratory Services

Analysis Report: CAM Metals, STLC, EPA Method 6010/7000  
CA Waste Extraction Test (WET)

Client: TKS Consulting  
P.O. Box 1618  
Sutter Creek, CA 95685

Project No.:  
Contact: Tim Smith  
Phone: (209)267-0903

Project: GSA

CLS Contact: George Hampton  
Job No.: 793760  
COC Log No.: 17354  
CLS ID No.: M3760A  
Batch No.: M940228A  
Matrix: SOIL

Date Reported: 03/07/94

## LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Ag (Silver)	7440-22-4	1.0	91
As (Arsenic)	7440-38-2	0.40	114
Ba (Barium)	7440-39-3	20	98
Be (Beryllium)	7440-41-7	0.50	102
Cd (Cadmium)	7440-43-9	0.50	94
Co (Cobalt)	7440-48-4	5.0	97
Cr (Chromium)	7440-47-3	2.0	95
Cu (Copper)	7440-50-8	2.5	99
Hg (Mercury)	7439-97-6	0.025	87
Mo (Molybdenum)	7439-98-7	5.0	96
Ni (Nickel)	7440-02-0	5.0	97
Pb (Lead)	7439-92-1	5.0	94
Sb (Antimony)	7440-36-0	5.0	105
Se (Selenium)	7783-00-8	0.30	9
Tl (Thallium)	7440-28-0	20	93
V (Vanadium)	7440-62-2	5.0	95
Zn (Zinc)	7440-66-6	5.0	94