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CONFIDENTIAL  
PROTECTION

Telephone (650) 691-0131  
Fax (650) 691-9837

00 JAN 25 AM 9: 01

**Subject:** Removal of Product Lines at Tosco  
11266 - Alameda **Date:** January 20, 2000

**Send Via:** Mail **For:**

**Attn:** Ms. Eva Chu  As Requested

**Company:** ACHCSA  Review

**Address:** 1131 Harbor Bay Parkway, 2<sup>nd</sup>  Your Information

Floor  Approval

Alameda, CA. 94502  Signature

**Project No.** 006.03425 **Project Name** Tosco 11266 -  
Alameda

**Enclosure(s):** **Quantity**

Letter Report 1

**COMMENTS:**

Enclosed is the Letter Report documenting sampling activities performed during the replacement of product lines at the above referenced site. If you have any questions or comments, feel free to contact me anytime at (650) 691-0131 ext. 25.

Thank you,

**Signature:**  **Cc:** Mr. Dave DeWitt, Tosco

**Title:** Project Manager Mr. Robert Weston,  
ACHCSA

January 20, 2000  
Project No. 006.03425

Ms. Eva Chu  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, California 94502

**Re: Removal and Replacement of Product Lines and Dispensers**

Tosco (BP) Service Station #11266  
(54) 1451 Park Street  
Alameda, California

Dear Ms. Chu:

SECOR International Incorporated (SECOR) on behalf of Tosco Marketing Company (Tosco) has prepared this letter to document soil sampling activities associated with the removal and replacement of products lines and dispensers at the Tosco (BP) Service Station #11266 located at 1541 Park Street in Alameda, California (the Site, see Figure 1). In addition to SECOR, these activities were observed by Mr. Robert Weston of the Alameda County Health Care Services Agency (ACHCSA).

**Background**

The Site is located at the intersection of Park Street and Lincoln Avenue in Alameda, California. The Site is currently operating as a retail gasoline service station. Three gasoline underground storage tanks (USTs) and associated product lines and dispensers are present at the Site.

Six groundwater monitoring wells and one groundwater extraction well were installed at the Site during previous investigations and are designated MW-1 through MW-6 and RW-1, respectively.

**Product Line Removal and Replacement Activities**

Removal and replacement of product lines and dispensers was performed by Paradiso Mechanical on December 6, 1999. Excavation and sampling activities were observed and approved by Mr. Weston of the ACHCSA.

## Soil Sampling – Product Lines and Dispensers

On December 6, 1999, four soil samples from four locations designated PD-1-2', PD-2-2', PD-3-2', and PD-4-2' were collected from beneath each of the four product dispensers, and two soil samples from two locations designated PL-1-2' and PL-2-2' were collected from beneath the product lines (Figure 2). Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015, Modified, as well as methyl tertiary butyl ether (MTBE) and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020 and total lead by EPA Method 6010A.

Product line and dispenser soil analytical data are presented in Table 1 and soil sample locations are shown on Figure 2. Field and laboratory procedures are presented as Attachment A. TPHg was detected in sample PD-3-2' at 2 milligrams per kilogram (mg/kg). Other petroleum hydrocarbons detected in sample PD-3-2' include benzene (0.009 mg/kg), toluene (0.051 mg/kg), ethylbenzene (0.013 mg/kg), and xylenes (0.15 mg/kg). Minor concentrations of BTEX constituents were also detected in samples PD-4-2' (toluene at 0.15 mg/kg and xylenes at 0.09 mg/kg) and PL-2-2' (ethylbenzene at 0.008 mg/kg). No other petroleum hydrocarbons were detected at or above the laboratory reporting limits.

Total lead was detected in samples PD-2-2' (6 mg/kg), PD-3-2' (140 mg/kg), PD-4-2' (910 mg/kg), PL-1-2' (10 mg/kg), and PL-2-2' (10 mg/kg). Samples PD-3-2' and PD-4-2' were subsequently analyzed for lead by measuring the soluble threshold limit concentration (STLC). STLC results verified lead in samples PD-3-2' and PD-4-2' at 6 milligrams per liter (mg/L) and 39 mg/L, respectively. Both samples were subsequently analyzed for lead by the toxicity characteristic leaching procedure (TCLP). The TCLP indicated that lead was present in sample PD-4-2' at 1.2 mg/L but was not detected above the method detection limit of 0.5 mg/L in sample PD-3-2'. Certified analytical reports and chain-of-custody documentation are presented as Attachment B.

## Stockpiled Soil

The soil stockpile generated during removal and replacement of the product lines and dispensers was comprised solely of pea gravel. In accordance with a discussion with the ACHCSA, the stockpile was used as backfill.

## Summary of Results

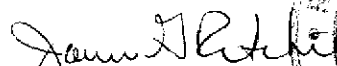
During product line upgrade activities at the Site, residual concentrations of hydrocarbons were reported in soil samples collected from beneath the facility. Impact to the subsurface by petroleum hydrocarbons originating from the product lines and dispensers are limited and do not pose a threat to human health or the environment. Therefore, SECOR, on behalf of Tosco, requests that no further action be required of Tosco with respect to product line and dispenser replacement.

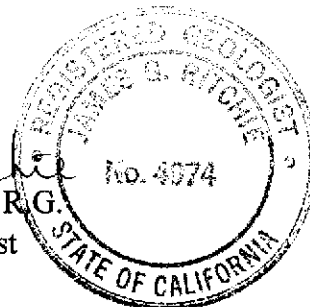
If you have any questions or comments regarding this letter, please call us at (650) 691-0131.

Sincerely,

**SECOR International Incorporated**

  
Robert Potter  
Project Manager

  
James G. Ritchie, R.G.  
Principal Geologist



Attachments: Table 1 - Soil Analytical Data - Product Lines and Dispensers  
Figure 1 - Site Location Map  
Figure 2 - Site Plan with Soil Sample Locations  
Attachment A - Field and Laboratory Procedures  
Attachment B - Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Dave DeWitt, Tosco Marketing Company  
Mr. Robert Weston, ACWD

**Table 1**  
**Soil Analytical Data**  
**Product Lines and Dispensers**

Tosco (Former BP) Service Station # 11266  
 1541 Park Street  
 Alameda, California

| Sample Name | Sample Depth (feet bgs) | Date Sampled | TPH as           |                 | Toluene (mg/kg) | Ethly-benzene (mg/kg) | Xylenes (mg/kg) | MTBE              |      | Total Lead (mg/kg) | Lead By STLC (mg/L) | Lead By TCLP (mg/L) |
|-------------|-------------------------|--------------|------------------|-----------------|-----------------|-----------------------|-----------------|-------------------|------|--------------------|---------------------|---------------------|
|             |                         |              | Gasoline (mg/kg) | Benzene (mg/kg) |                 |                       |                 | 8020/8260 (mg/kg) |      |                    |                     |                     |
| PD-1        | 2.0'                    | 12/06/99     | ND<1.00          | ND<0.005        | ND<0.005        | ND<0.005              | ND<0.010        | ND<0.05/NA        | ND<5 | NA                 | NA                  |                     |
| PD-2        | 2.0'                    | 12/06/99     | ND<1.00          | ND<0.005        | ND<0.005        | ND<0.005              | ND<0.010        | ND<0.05/NA        | 6    | NA                 | NA                  |                     |
| PD-3        | 2.0'                    | 12/06/99     | 2.00             | 0.009           | 0.051           | 0.013                 | 0.15            | ND<0.05/NA        | 140  | 6                  | ND<0.5              |                     |
| PD-4        | 2.0'                    | 12/06/99     | ND<1.00          | ND<0.005        | 0.15            | ND<0.005              | 0.09            | ND<0.05/NA        | 910  | 39                 | 1.2                 |                     |
| PL-1        | 2.0'                    | 12/06/99     | ND<1.00          | ND<0.005        | ND<0.005        | ND<0.005              | ND<0.010        | ND<0.05/NA        | 10   | NA                 | NA                  |                     |
| PL-2        | 2.0'                    | 12/06/99     | ND<1.00          | ND<0.005        | ND<0.005        | 0.008                 | ND<0.010        | ND<0.05/NA        | 10   | NA                 | NA                  |                     |

TPH = Total petroleum hydrocarbons

STLC = Soluble Limit Threshold Concentration

MTBE = Methyl tertiary butyl ether

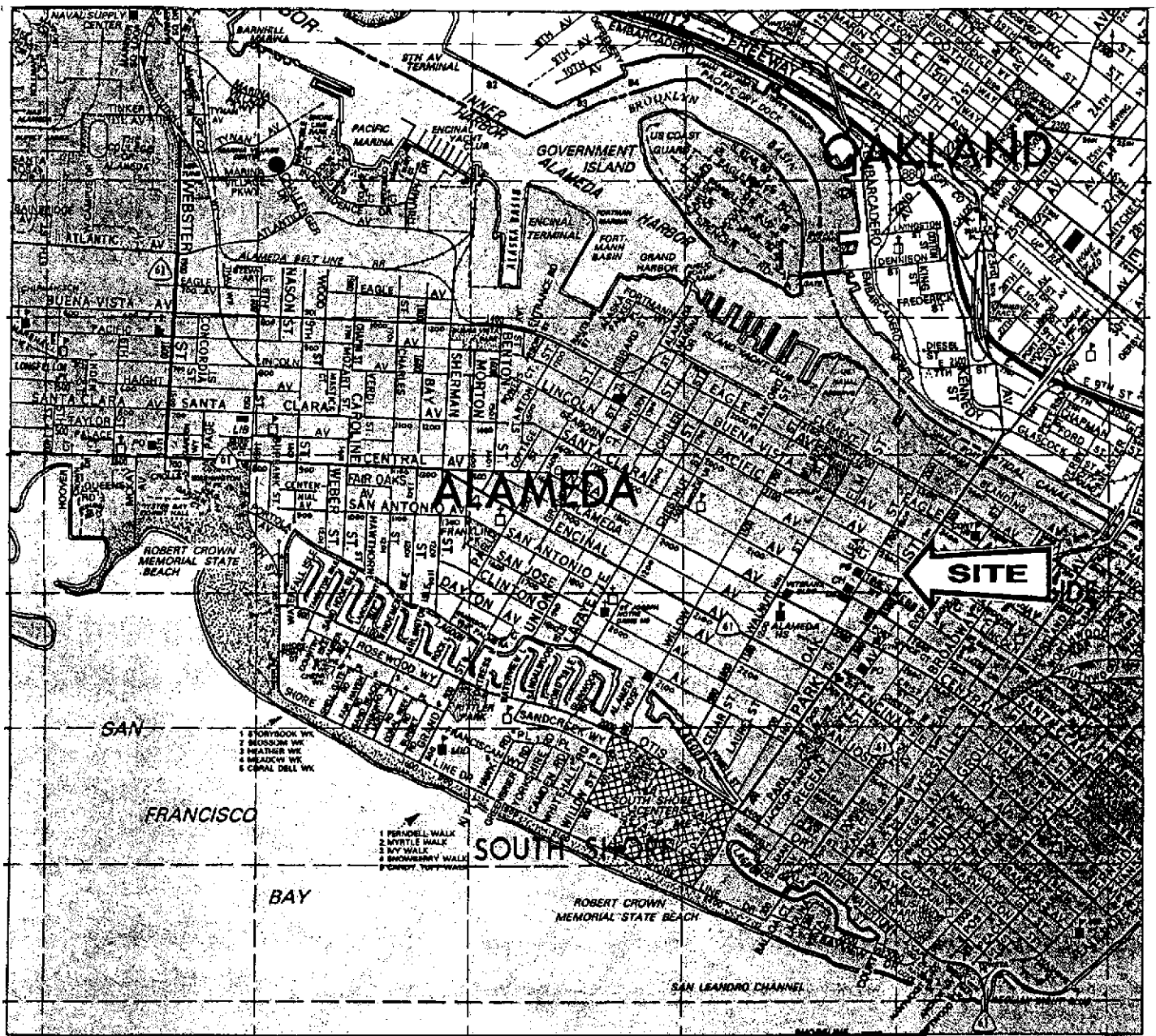
TCLP = Toxicity Characteristic Leaching Procedure

ND = Not detected above specified laboratory reporting limits

mg/L = milligrams per liter

NA = Not analyzed

mg/kg = milligrams per kilogram



SOURCE: THE THOMAS GUIDE,  
ALAMEDA/CONTRA COSTA COUNTIES  
1994 EDITION



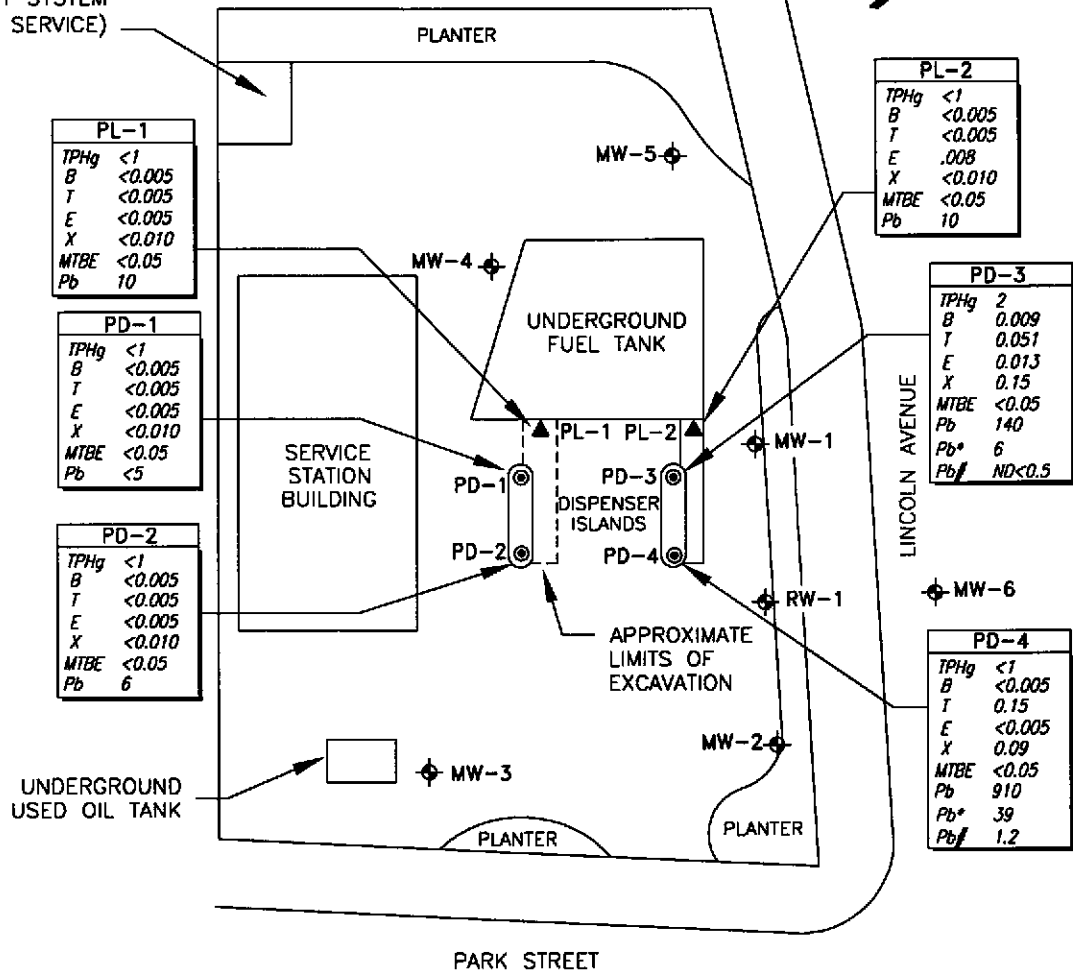
199812.271039 R:\OAKLAND\ACAD\TOSCO\TOSCO-006.03425.602-001.DWG 12.28.99

**SECOR**  
*International Incorporated*

|         |               |
|---------|---------------|
| DRAWN   | GEL           |
| APPR    | RP            |
| DATE    | 28DEC99       |
| JOB NO. | 006.03425.602 |

**FIGURE 1**  
**TOSCO (FORMER BP)SERVICE STATION #11266**  
**1541 PARK STREET**  
**ALAMEDA, CALIFORNIA**  
**SITE LOCATION MAP**

GROUNDWATER TREATMENT SYSTEM (OUT OF SERVICE)



| PL-1 |        |
|------|--------|
| TPHg | <1     |
| B    | <0.005 |
| T    | <0.005 |
| E    | <0.005 |
| X    | <0.010 |
| MTBE | <0.05  |
| Pb   | 10     |

| PD-1 |        |
|------|--------|
| TPHg | <1     |
| B    | <0.005 |
| T    | <0.005 |
| E    | <0.005 |
| X    | <0.010 |
| MTBE | <0.05  |
| Pb   | <5     |

| PD-2 |        |
|------|--------|
| TPHg | <1     |
| B    | <0.005 |
| T    | <0.005 |
| E    | <0.005 |
| X    | <0.010 |
| MTBE | <0.05  |
| Pb   | 6      |

| PL-2 |        |
|------|--------|
| TPHg | <1     |
| B    | <0.005 |
| T    | <0.005 |
| E    | .008   |
| X    | <0.010 |
| MTBE | <0.05  |
| Pb   | 10     |

| PD-3 |        |
|------|--------|
| TPHg | 2      |
| B    | 0.009  |
| T    | 0.051  |
| E    | 0.013  |
| X    | 0.15   |
| MTBE | <0.05  |
| Pb   | 140    |
| Pb*  | 6      |
| Pb#  | ND<0.5 |

| PD-4 |        |
|------|--------|
| TPHg | <1     |
| B    | <0.005 |
| T    | 0.15   |
| E    | <0.005 |
| X    | 0.09   |
| MTBE | <0.05  |
| Pb   | 910    |
| Pb*  | 39     |
| Pb#  | 1.2    |

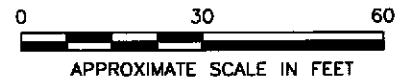
LEGEND

- ◆ MW-3 MONITORING WELL LOCATION
- ⊙ PD-1 PRODUCT DISPENSER SOIL SAMPLE
- ▲ PL-1 PRODUCT LINE SOIL SAMPLE

|      |        |
|------|--------|
| TPHg | <1     |
| B    | <0.005 |
| T    | <0.005 |
| E    | <0.005 |
| X    | <0.10  |
| MTBE | <0.05  |
| Pb   | <5     |

CONCENTRATION (Mg/Kg)

- ND — NOT DETECTED ABOVE THE STATED DETECTION LIMITS
- TPHg — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- B — BENZENE
- T — TOLUENE
- E — ETHYLBENZENE
- X — XYLENES
- MTBE — METHYL TERTIARY BUTYL ETHER
- Pb — TOTAL LEAD
- Pb\* — LEAD BY STLC (Mg/L)
- Pb# — LEAD BY TCLP (Mg/L)



**SECOR**  
International Incorporated

|         |               |
|---------|---------------|
| DRAWN   | GEL           |
| APPR    | RP            |
| DATE    | 28DEC99       |
| JOB NO. | 006.03425.802 |

**FIGURE 2**  
**TOSCO (FORMER BP) SERVICE STATION #11266**  
1541 PARK STREET  
ALAMEDA, CALIFORNIA  
**SITE PLAN**

**ATTACHMENT A**  
**FIELD AND LABORATORY PROCEDURES**



**ATTACHMENT A**  
**FIELD AND LABORATORY PROCEDURES**

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**Soil Sampling**

Soil samples were collected by advancing 2-inch-diameter brass sample liners into undisturbed soil, or soil removed from an excavation by a backhoe bucket. Soil samples for chemical analysis were retained in the brass liners, labeled, and capped with Teflon sheets and plastic end caps. The samples were then sealed in zip-lock bags, placed on ice, and transported to the laboratory accompanied by the appropriate chain-of-custody documentation.

**Laboratory Analysis of Soil Samples**

Analysis for TPHg, BTEX compounds, and MTBE was performed by EPA Method 8015, Modified and 8020, respectively. Analysis of lead was performed by EPA 6010A. Subsequent analyses of lead were performed by measuring the solubility threshold limit concentration (STLC) and by running the toxicity characteristic leaching procedure (TCLP).

**ATTACHMENT B**

**CERTIFIED ANALYTICAL REPORTS AND  
CHAIN-OF-CUSTODY DOCUMENTATION**



December 20, 1999

Service Request No.: S9903859

Mr. Robert Potter  
SECOR International, Inc.  
1225 Pear Avenue  
Suite 110  
Mountain View, CA 94043

**RE: Tosco 11266 Fiber Trench Replace**

Dear Mr. Potter:

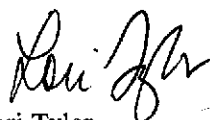
Enclosed are the results of the sample(s) submitted to our laboratory on December 6, 1999. All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply to the sample(s) analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Signature of this CAS Analytical Report confirms that pages 2 through 11, following, have been thoroughly reviewed and approved for release.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 2352, expiration: January 31, 2001).

If you have any questions, please call me at (408) 748-9700.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

  
Lori Tyler  
Project Chemist

COLUMBIA ANALYTICAL SERVICES, Inc.

Acronyms

|            |   |
|------------|---|
| A2LA       | American Association for Laboratory Accreditation   |
| ASTM       | American Society for Testing and Materials  |
| BOD        | Biochemical Oxygen Demand   |
| BTEX       | Benzene, Toluene, Ethylbenzene, Xylenes   |
| CAM        | California Assessment Metals  |
| CARB       | California Air Resources Board  |
| CAS Number | Chemical Abstract Service registry Number   |
| CFC        | Chlorofluorocarbon  |
| CFU        | Colony-Forming Unit   |
| COD        | Chemical Oxygen Demand  |
| DEC        | Department of Environmental Conservation  |
| DEQ        | Department of Environmental Quality   |
| DHS        | Department of Health Services   |
| DLCS       | Duplicate Laboratory Control Sample   |
| DMS        | Duplicate Matrix Spike  |
| DOE        | Department of Ecology   |
| DOH        | Department of Health  |
| EPA        | U. S. Environmental Protection Agency   |
| ELAP       | Environmental Laboratory Accreditation Program  |
| GC         | Gas Chromatography  |
| GC/MS      | Gas Chromatography/Mass Spectrometry  |
| IC         | Ion Chromatography  |
| ICB        | Initial Calibration Blank sample  |
| ICP        | Inductively Coupled Plasma atomic emission spectrometry   |
| ICV        | Initial Calibration Verification sample   |
| J          | Estimated concentration. The value is less than the MRL, but greater than or equal to the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.               |
| LCS        | Laboratory Control Sample   |
| LUFT       | Leaking Underground Fuel Tank   |
| M          | Modified  |
| MBAS       | Methylene Blue Active Substances  |
| MCL        | Maximum Contaminant Level. The highest permissible concentration of a substance allowed in drinking water as established by the U. S. EPA.  |
| MDL        | Method Detection Limit  |
| MPN        | Most Probable Number  |
| MRL        | Method Reporting Limit  |
| MS         | Matrix Spike  |
| MTBE       | Methyl tert-Butyl Ether   |
| NA         | Not Applicable  |
| NAN        | Not Analyzed  |
| NC         | Not Calculated  |
| NCASI      | National Council of the paper industry for Air and Stream Improvement   |
| ND         | Not Detected at or above the method reporting/detection limit (MRL/MDL)   |
| NIOSH      | National Institute for Occupational Safety and Health   |
| NTU        | Nephelometric Turbidity Units   |
| ppb        | Parts Per Billion   |
| ppm        | Parts Per Million   |
| PQL        | Practical Quantitation Limit  |
| QA/QC      | Quality Assurance/Quality Control   |
| RCRA       | Resource Conservation and Recovery Act  |
| RPD        | Relative Percent Difference   |
| SIM        | Selected Ion Monitoring   |
| SM         | Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992  |
| STLC       | Solubility Threshold Limit Concentration  |
| SW         | Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.  |
| TCLP       | Toxicity Characteristic Leaching Procedure  |
| TDS        | Total Dissolved Solids  |
| TPH        | Total Petroleum Hydrocarbons  |
| tr         | Trace level. The concentration of an analyte that is less than the PQL but greater than or equal to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding. |
| TRPH       | Total Recoverable Petroleum Hydrocarbons  |
| TSS        | Total Suspended Solids  |
| TTLIC      | Total Threshold Limit Concentration   |
| VOA        | Volatile Organic Analyte(s)   |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: TOSCO  
Project: Tosco 11266 Fiber Trench Replace  
Sample Matrix: Soil

Service Request: S9903859  
Date Collected: 12/6/99  
Date Received: 12/6/99

Lead  
Total Metals

Prep Method: EPA 3050BM  
Analysis Method: 6010A  
Test Notes:

Units: mg/Kg (ppm)  
Basis: Wet

| Sample Name  | Lab Code     | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|--------------|--------------|-----|-----------------|----------------|---------------|--------|--------------|
| PD-1         | S9903859-002 | 5   | 1               | 12/12/99       | 12/15/99      | ND     |              |
| PD-2         | S9903859-003 | 5   | 1               | 12/12/99       | 12/15/99      | 6      |              |
| PD-3         | S9903859-004 | 5   | 1               | 12/12/99       | 12/15/99      | 140    |              |
| PD-4         | S9903859-005 | 5   | 1               | 12/12/99       | 12/15/99      | 910    |              |
| PL-1         | S9903859-006 | 5   | 1               | 12/12/99       | 12/15/99      | 10     |              |
| PL-2         | S9903859-007 | 5   | 1               | 12/12/99       | 12/15/99      | 10     |              |
| Method Blank | S991212-MB   | 5   | 1               | 12/12/99       | 12/15/99      | ND     |              |

Approved By: \_\_\_\_\_



Date: 12-20-99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: TOSCO  
Project: Tosco 11266 Fiber Trench Replace  
Sample Matrix: Soil

Service Request: S9903859  
Date Collected: 12/06/99  
Date Received: 12/06/99

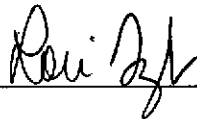
BTEX, MTBE and TPH as Gasoline

Sample Name: PD-1  
Lab Code: S9903859-002  
Test Notes:

Units: mg/Kg (ppm)  
Basis: Wet

| Analyte                 | Prep Method | Analysis Method | MRL   | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-------------------------|-------------|-----------------|-------|-----------------|----------------|---------------|--------|--------------|
| TPH as Gasoline         | EPA 5030    | CA/LUFT         | 1     | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Benzene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Toluene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Ethylbenzene            | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Xylenes, Total          | EPA 5030    | 8021B           | 0.010 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Methyl tert-Butyl Ether | EPA 5030    | 8021B           | 0.05  | 1               | 12/10/99       | 12/12/99      | ND     |              |

Approved By: \_\_\_\_\_



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

12-20-99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: TOSCO  
 Project: Tosco 11266 Fiber Trench Replace  
 Sample Matrix: Soil

Service Request: S9903859  
 Date Collected: 12/06/99  
 Date Received: 12/06/99

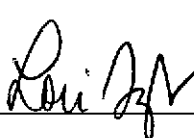
BTEX, MTBE and TPH as Gasoline

Sample Name: PD-2  
 Lab Code: S9903859-003  
 Test Notes:

Units: mg/Kg (ppm)  
 Basis: Wet

| Analyte                 | Prep Method | Analysis Method | MRL   | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-------------------------|-------------|-----------------|-------|-----------------|----------------|---------------|--------|--------------|
| TPH as Gasoline         | EPA 5030    | CA/LUFT         | 1     | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Benzene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Toluene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Ethylbenzene            | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Xylenes, Total          | EPA 5030    | 8021B           | 0.010 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Methyl tert-Butyl Ether | EPA 5030    | 8021B           | 0.05  | 1               | 12/10/99       | 12/12/99      | ND     |              |

Approved By: \_\_\_\_\_



Date: 12-20-99

**COLUMBIA ANALYTICAL SERVICES, INC.**

Analytical Report

**Client:** TOSCO  
**Project:** Tosco 11266 Fiber Trench Replace  
**Sample Matrix:** Soil


**Service Request:** S9903859  
**Date Collected:** 12/06/99  
**Date Received:** 12/06/99

BTEX, MTBE and TPH as Gasoline

**Sample Name:** PD-3  
**Lab Code:** S9903859-004  
**Test Notes:**

**Units:** mg/Kg (ppm)  
**Basis:** Wet

| Analyte                 | Prep Method | Analysis Method | MRL   | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-------------------------|-------------|-----------------|-------|-----------------|----------------|---------------|--------|--------------|
| TPH as Gasoline         | EPA 5030    | CA/LUFT         | 1     | 1               | 12/10/99       | 12/13/99      | 2      |              |
| Benzene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/13/99      | 0.009  |              |
| Toluene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/13/99      | 0.051  |              |
| Ethylbenzene            | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/13/99      | 0.013  |              |
| Xylenes, Total          | EPA 5030    | 8021B           | 0.010 | 1               | 12/10/99       | 12/13/99      | 0.15   |              |
| Methyl tert-Butyl Ether | EPA 5030    | 8021B           | 0.05  | 1               | 12/10/99       | 12/13/99      | ND     |              |

Approved By:  Date: 12-20-99

1S22/020597p



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: TOSCO  
Project: Tosco 11266 Fiber Trench Replace  
Sample Matrix: Soil

Service Request: S9903859  
Date Collected: 12/06/99  
Date Received: 12/06/99

BTEX, MTBE and TPH as Gasoline

Sample Name: PD-4  
Lab Code: S9903859-005  
Test Notes:

Units: mg/Kg (ppm)  
Basis: Wet

| Analyte                 | Prep Method | Analysis Method | MRL   | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-------------------------|-------------|-----------------|-------|-----------------|----------------|---------------|--------|--------------|
| TPH as Gasoline         | EPA 5030    | CA/LUFT         | 1     | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Benzene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Toluene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | 0.15   |              |
| Ethylbenzene            | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Xylenes, Total          | EPA 5030    | 8021B           | 0.010 | 1               | 12/10/99       | 12/12/99      | 0.09   |              |
| Methyl tert-Butyl Ether | EPA 5030    | 8021B           | 0.05  | 1               | 12/10/99       | 12/12/99      | ND     |              |

Approved By:  Date: 12-20-99

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: TOSCO  
 Project: Tosco 11266 Fiber Trench Replace  
 Sample Matrix: Soil

Service Request: S9903859  
 Date Collected: 12/06/99  
 Date Received: 12/06/99

BTEX, MTBE and TPH as Gasoline

Sample Name: PL-1  
 Lab Code: S9903859-006  
 Test Notes:

Units: mg/Kg (ppm)  
 Basis: Wet

| Analyte                 | Prep Method | Analysis Method | MRL   | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-------------------------|-------------|-----------------|-------|-----------------|----------------|---------------|--------|--------------|
| TPH as Gasoline         | EPA 5030    | CA/LUFT         | 1     | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Benzene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Toluene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Ethylbenzene            | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Xylenes, Total          | EPA 5030    | 8021B           | 0.010 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Methyl tert-Butyl Ether | EPA 5030    | 8021B           | 0.05  | 1               | 12/10/99       | 12/12/99      | ND     |              |

Approved By:  Date: 12-20-99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: TOSCO  
 Project: Tosco 11266 Fiber Trench Replace  
 Sample Matrix: Soil

Service Request: S9903859  
 Date Collected: 12/06/99  
 Date Received: 12/06/99

BTEX, MTBE and TPH as Gasoline

Sample Name: PL-2  
 Lab Code: S9903859-007  
 Test Notes:

Units: mg/Kg (ppm)  
 Basis: Wet

| Analyte                 | Prep Method | Analysis Method | MRL   | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-------------------------|-------------|-----------------|-------|-----------------|----------------|---------------|--------|--------------|
| TPH as Gasoline         | EPA 5030    | CA/LUFT         | 1     | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Benzene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Toluene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Ethylbenzene            | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | 0.008  |              |
| Xylenes, Total          | EPA 5030    | 8021B           | 0.010 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Methyl tert-Butyl Ether | EPA 5030    | 8021B           | 0.05  | 1               | 12/10/99       | 12/12/99      | ND     |              |

Approved By: \_\_\_\_\_

*Ravi J V*

Date: 12-20-99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: TOSCO  
 Project: Tosco 11266 Fiber Trench Replace  
 Sample Matrix: Soil

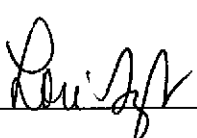
Service Request: S9903859  
 Date Collected: NA  
 Date Received: NA

BTEX, MTBE and TPH as Gasoline

Sample Name: Method Blank  
 Lab Code: S991210-SB1  
 Test Notes:

Units: mg/Kg (ppm)  
 Basis: Wet

| Analyte                 | Prep Method | Analysis Method | MRL   | Dilution Factor | Date Extracted | Date Analyzed | Result | Result Notes |
|-------------------------|-------------|-----------------|-------|-----------------|----------------|---------------|--------|--------------|
| TPH as Gasoline         | EPA 5030    | CA/LUFT         | 1     | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Benzene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Toluene                 | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Ethylbenzene            | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Xylenes, Total          | EPA 5030    | 8021B           | 0.005 | 1               | 12/10/99       | 12/12/99      | ND     |              |
| Methyl tert-Butyl Ether | EPA 5030    | 8021B           | 0.05  | 1               | 12/10/99       | 12/12/99      | ND     |              |

Approved By:  Date: 12-20-99

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: TOSCO  
Project: Tosco 11266 Fiber Trench Replace  
Sample Matrix: Soil

Service Request: S9903859  
Date Collected: NA  
Date Received: NA  
Date Extracted: NA  
Date Analyzed: NA

Surrogate Recovery Summary  
BTEX and TPH as Gasoline

Prep Method: EPA 5030  
Analysis Method: 8021B CA/LUFT

Units: PERCENT  
Basis: NA

| Sample Name  | Lab Code     | Test Notes | Percent Recovery     |                        |
|--------------|--------------|------------|----------------------|------------------------|
|              |              |            | 4-Bromofluorobenzene | a,a,a-Trifluorotoluene |
| PD-1         | S9903859-002 |            | 90                   | 97                     |
| PD-2         | S9903859-003 |            | 90                   | 97                     |
| PD-3         | S9903859-004 |            | 96                   | 106                    |
| PD-4         | S9903859-005 |            | 99                   | 101                    |
| PL-1         | S9903859-006 |            | 97                   | 103                    |
| PL-2         | S9903859-007 |            | 100                  | 97                     |
| Method Blank | S991210-SB1  |            | 88                   | 102                    |

CAS Acceptance Limits: 51-137 51-137

Approved By: \_\_\_\_\_

Date: 12-20-99

# Nº 002110 TOSCO

885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308  
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100  
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673  
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342  
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

|  |  |  |  |
|--|--|--|--|
| Consultant Company: <b>SECOR 59903859</b>                      |  | Project Name: <b>TOSCO 11266 Fiber Trrench Replace</b> |  |
| Address: <b>1225 Pear Ave, suite 110</b>                       |  | TOSCO Engineer (required) <b>David DeWitt</b>          |  |
| City: <b>Mtn. View</b> State: <b>CA</b> Zip Code: <b>94043</b> | Site #, City, State: <b>#11266, Alameda, CA.</b>   |  |  |
| Telephone: <b>(650)691-0131</b> FAX #: <b>(650)691-9837</b>    | QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A |  |  |
| Report To: <b>Robert</b>                                       | Sampler: <b>RL + P.H.</b>  |  |  |

|  |   |  |   |   |
|--|---|--|---|---|
| Turnaround <input checked="" type="checkbox"/> 10 Work Days<br>Time: <input type="checkbox"/> 2 Work Days  | <input type="checkbox"/> 5 Work Days<br><input type="checkbox"/> 1 Work Day | <input type="checkbox"/> 3 Work Days<br><input type="checkbox"/> 2-8 Hours | <input type="checkbox"/> Drinking Water<br><input type="checkbox"/> Waste Water<br><input type="checkbox"/> Other | <b>Analyses Requested</b><br>TPH (EPA 8015 Mod. Gas)<br>BTEX (EPA 8020)<br>MTBE (EPA 8020)<br>TPH (EPA 8015 Mod. Diesel)<br>Volatile Organics (EPA 8260)<br>MTBE Confirmation (EPA 8260)<br><b>Total Lead</b> |
| <b>CODE:</b> <input type="checkbox"/> Misc. <input type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure |   |  |   |   |

| Client Sample I.D. | Date/Time Sampled | Matrix Desc. | # of Cont. | Cont. Type   | Sequoia's Sample # | TPH (EPA 8015 Mod. Gas) | BTEX (EPA 8020) | MTBE (EPA 8020) | TPH (EPA 8015 Mod. Diesel) | Volatile Organics (EPA 8260) | MTBE Confirmation (EPA 8260) | Total Lead | Comments                                       |
|--------------------|-------------------|--------------|------------|--------------|--------------------|-------------------------|-----------------|-----------------|----------------------------|------------------------------|------------------------------|------------|--|
| 1. TS-W            | 12/6/99<br>9:15   | W            | 11         | Various      | ①                  |                         |                 |                 |                            |                              |                              |            | <b>HOLD</b>                                    |
| 2.                 |                   |              |            |              |                    |                         |                 |                 |                            |                              |                              |            |  |
| 3. PD-1            | 12/6/99//9:00     | S            | 1          | Brass sleeve | ②                  | ✓                       | ✓               | ✓               |                            |                              |                              |            | Confirm  |
| 4. PD-2            | ↓                 | ↓            | ↓          | ↓            | ③                  | ↓                       | ↓               | ↓               |                            |                              |                              |            | Highest MTBE                                   |
| 5. PD-3            | ↓                 | ↓            | ↓          | ↓            | ④                  | ↓                       | ↓               | ↓               |                            |                              |                              |            | By 8260  |
| 6. PD-4            | ↓                 | ↓            | ↓          | ↓            | ⑤                  | ↓                       | ↓               | ↓               |                            |                              |                              |            |  |
| 7. PL-1            | ↓                 | ↓            | ↓          | ↓            | ⑥                  | ↓                       | ↓               | ↓               |                            |                              |                              |            |  |
| 8. PL-2            | ↓                 | ↓            | ↓          | ↓            | ⑦                  | ↓                       | ↓               | ↓               |                            |                              |                              |            | R8/D1<br>R11/D3-R<br><del>R11/D3-R</del><br>R3 |
| 9.                 |                   |              |            |              |                    |                         |                 |                 |                            |                              |                              |            |  |
| 10.                |                   |              |            |              |                    |                         |                 |                 |                            |                              |                              |            | Due: 12/20/99                                  |

|                                     |                      |                    |                                |                      |                   |
|-------------------------------------|----------------------|--------------------|--------------------------------|----------------------|-------------------|
| Relinquished By: <b>[Signature]</b> | Date: <b>12/6/99</b> | Time: <b>11:15</b> | Received By: <b>Bruce Full</b> | Date: <b>12/6/99</b> | Time: <b>5:16</b> |
| Relinquished By: _____              | Date: _____          | Time: _____        | Received By: _____             | Date: _____          | Time: _____       |
| Relinquished By: _____              | Date: _____          | Time: _____        | Received By: _____             | Date: _____          | Time: _____       |

Were Samples Received in Good Condition?  Yes  No     
 Samples on Ice?  Yes  No     
 Method of Shipment \_\_\_\_\_     
 Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No     
 If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No     
 If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client

Yellow - Sequoia

White - Sequoia



January 3, 2000

Service Request No.: S9904048

Mr. Robert Potter  
SECOR International, Inc.  
1225 Pear Avenue  
Suite 110  
Mountain View, CA 94043

**RE: Tosco 11266 Fiber Trench**

Dear Mr. Potter:


Enclosed are the results of the sample(s) submitted to our laboratory on December 6, 1999. All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply to the sample(s) analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Signature of this CAS Analytical Report confirms that pages 2 through 5, following, have been thoroughly reviewed and approved for release.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 2352, expiration: January 31, 2001).

If you have any questions, please call me at (408) 748-9700.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

  
Lori Tyler  
Project Chemist

**COLUMBIA ANALYTICAL SERVICES, Inc.**

**Acronyms**

|                   |   |
|-------------------|---|
| <b>A2LA</b>       | American Association for Laboratory Accreditation   |
| <b>ASTM</b>       | American Society for Testing and Materials  |
| <b>BOD</b>        | Biochemical Oxygen Demand   |
| <b>BTEX</b>       | Benzene, Toluene, Ethylbenzene, Xylenes   |
| <b>CAM</b>        | California Assessment Metals  |
| <b>CARB</b>       | California Air Resources Board  |
| <b>CAS Number</b> | Chemical Abstract Service registry Number   |
| <b>CFC</b>        | Chlorofluorocarbon  |
| <b>CFU</b>        | Colony-Forming Unit   |
| <b>COD</b>        | Chemical Oxygen Demand  |
| <b>DEC</b>        | Department of Environmental Conservation  |
| <b>DEQ</b>        | Department of Environmental Quality   |
| <b>DHS</b>        | Department of Health Services   |
| <b>DLCS</b>       | Duplicate Laboratory Control Sample   |
| <b>DMS</b>        | Duplicate Matrix Spike  |
| <b>DOE</b>        | Department of Ecology   |
| <b>DOH</b>        | Department of Health  |
| <b>EPA</b>        | U. S. Environmental Protection Agency   |
| <b>ELAP</b>       | Environmental Laboratory Accreditation Program  |
| <b>GC</b>         | Gas Chromatography  |
| <b>GC/MS</b>      | Gas Chromatography/Mass Spectrometry  |
| <b>IC</b>         | Ion Chromatography  |
| <b>ICB</b>        | Initial Calibration Blank sample  |
| <b>ICP</b>        | Inductively Coupled Plasma atomic emission spectrometry   |
| <b>ICV</b>        | Initial Calibration Verification sample   |
| <b>J</b>          | Estimated concentration. The value is less than the MRL, but greater than or equal to the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.               |
| <b>LCS</b>        | Laboratory Control Sample   |
| <b>LUFT</b>       | Leaking Underground Fuel Tank   |
| <b>M</b>          | Modified  |
| <b>MBAS</b>       | Methylene Blue Active Substances  |
| <b>MCL</b>        | Maximum Contaminant Level. The highest permissible concentration of a substance allowed in drinking water as established by the U. S. EPA.  |
| <b>MDL</b>        | Method Detection Limit  |
| <b>MPN</b>        | Most Probable Number  |
| <b>MRL</b>        | Method Reporting Limit  |
| <b>MS</b>         | Matrix Spike  |
| <b>MTBE</b>       | Methyl tert-Butyl Ether   |
| <b>NA</b>         | Not Applicable  |
| <b>NAN</b>        | Not Analyzed  |
| <b>NC</b>         | Not Calculated  |
| <b>NCASI</b>      | National Council of the paper industry for Air and Stream Improvement   |
| <b>ND</b>         | Not Detected at or above the method reporting/detection limit (MRL/MDL)   |
| <b>NIOSH</b>      | National Institute for Occupational Safety and Health   |
| <b>NTU</b>        | Nephelometric Turbidity Units   |
| <b>ppb</b>        | Parts Per Billion   |
| <b>ppm</b>        | Parts Per Million   |
| <b>PQL</b>        | Practical Quantitation Limit  |
| <b>QA/QC</b>      | Quality Assurance/Quality Control   |
| <b>RCRA</b>       | Resource Conservation and Recovery Act  |
| <b>RPD</b>        | Relative Percent Difference   |
| <b>SIM</b>        | Selected Ion Monitoring   |
| <b>SM</b>         | Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992  |
| <b>STLC</b>       | Solubility Threshold Limit Concentration  |
| <b>SW</b>         | Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.  |
| <b>TCLP</b>       | Toxicity Characteristic Leaching Procedure  |
| <b>TDS</b>        | Total Dissolved Solids  |
| <b>TPH</b>        | Total Petroleum Hydrocarbons  |
| <b>tr</b>         | Trace level. The concentration of an analyte that is less than the PQL but greater than or equal to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding. |
| <b>TRPH</b>       | Total Recoverable Petroleum Hydrocarbons  |
| <b>TSS</b>        | Total Suspended Solids  |
| <b>TTLC</b>       | Total Threshold Limit Concentration   |
| <b>VOA</b>        | Volatile Organic Analyte(s)   |



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: TOSCO  
Project: Tosco 11266 Fiber Trench  
Sample Matrix: Soil

Service Request: S9904048  
Date Collected: 12/6/99  
Date Received: 12/6/99  
Date STLC Performed: 12/28-30/99


Metals  
Soluble Threshold Limit Concentration (STLC)

Sample Name: PD-3  
Lab Code: S9904048-001  
Test Notes:

Units: mg/L (ppm)  
Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | STLC Limits* | Dilution Factor | Date Prepared | Date Analyzed | Result | Result Notes |
|---------|-------------|-----------------|-----|--------------|-----------------|---------------|---------------|--------|--------------|
| Lead    | EPA 3010A   | 6010A           | 0.5 | 5            | 1               | 12/30/99      | 12/30/99      | 6      |              |

\* State of California Code of Regulations, Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24 and Article 5, Section 66261.126, Appendix II.

Approved By:  Date: 1-3-00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: TOSCO  
Project: Tosco 11266 Fiber Trench  
Sample Matrix: Soil

Service Request: S9904048  
Date Collected: 12/6/99  
Date Received: 12/6/99  
Date STLC Performed: 12/28-30/99


Metals  
Soluble Threshold Limit Concentration (STLC)

Sample Name: PD-4  
Lab Code: S9904048-002  
Test Notes:

Units: mg/L (ppm)  
Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | STLC Limits* | Dilution Factor | Date Prepared | Date Analyzed | Result | Result Notes |
|---------|-------------|-----------------|-----|--------------|-----------------|---------------|---------------|--------|--------------|
| Lead    | EPA 3010A   | 6010A           | 0.5 | 5            | 1               | 12/30/99      | 12/30/99      | 39     |              |

\* State of California Code of Regulations, Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24 and Article 5, Section 66261.126, Appendix II.

Approved By:  Date: 1-3-00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** TOSCO  
**Project:** Tosco 11266 Fiber Trench  
**Sample Matrix:** Soil

**Service Request:** S9904048  
**Date Collected:** NA  
**Date Received:** NA  
**Date STLC Performed:** 12/28-30/99

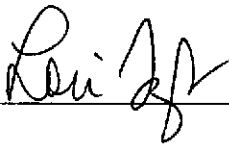
Metals  
Soluble Threshold Limit Concentration (STLC)

**Sample Name:** Method Blank  
**Lab Code:** S991230-MB  
**Test Notes:**

**Units:** mg/L (ppm)  
**Basis:** NA

| Analyte | Prep Method | Analysis Method | MRL | STLC Limits* | Dilution Factor | Date Prepared | Date Analyzed | Result | Result Notes |
|---------|-------------|-----------------|-----|--------------|-----------------|---------------|---------------|--------|--------------|
| Lead    | EPA 3010A   | 6010A           | 0.5 | 5            | 1               | 12/30/99      | 12/30/99      | ND     |              |

\* State of California Code of Regulations, Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24 and Article 5, Section 66261.126, Appendix II.

Approved By:  Date: 1-3-00



# TOSCO

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100  
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673  
 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342  
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

|  |  |  |  |
|--|--|--|--|
| Consultant Company: <b>SECOR S9903859</b>                      |  | Project Name: <b>TOSCO 11266 Fiber Tranche Replace</b>   |  |
| Address: <b>1225 Pear Ave, Suite 110</b>                       |  | TOSCO Engineer (required) <b>David DeWitt</b>  |  |
| City: <b>Man. View</b> State: <b>CA</b> Zip Code: <b>94043</b> |  |  |  |
| Telephone: <b>(650) 691-0131</b> FAX #: <b>(650) 691-9837</b>  | Site #, City, State: <b>#11266, Alameda, CA.</b> |  |  |
| Report To: <b>Robert</b>                                       | Sampler: <b>Bob + Pat</b>                        | QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A |  |

|   |   |   |
|---|---|---|
| Turnaround Time: <input checked="" type="checkbox"/> 10 Work Days <input type="checkbox"/> 5 Work Days <input type="checkbox"/> 3 Work Days <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 2-8 Hours | <input type="checkbox"/> Drinking Water<br><input type="checkbox"/> Waste Water<br><input type="checkbox"/> Other | <b>Analyses Requested</b><br><input type="checkbox"/> TPH (EPA 8015 Mod. Gas)<br><input type="checkbox"/> BTEX (EPA 8020)<br><input type="checkbox"/> MTBE (EPA 8029)<br><input type="checkbox"/> TPH (EPA 8015 Mod. Diesel)<br><input type="checkbox"/> Volatile Organics (EPA 8260)<br><input type="checkbox"/> MTBE Confirmation (EPA 8260)<br><input type="checkbox"/> Total Lead |
| <b>CODE:</b> <input type="checkbox"/> Misc. <input type="checkbox"/> Detect. <input type="checkbox"/> Eval. <input type="checkbox"/> Remed. <input type="checkbox"/> Demol. <input type="checkbox"/> Closure  |   |   |

| Client Sample I.D. | Date/Time Sampled | Matrix Desc. | # of Cont. | Cont. Type   | Sequoia's Sample # | TPH (EPA 8015 Mod. Gas) | BTEX (EPA 8020) | MTBE (EPA 8029) | TPH (EPA 8015 Mod. Diesel) | Volatile Organics (EPA 8260) | MTBE Confirmation (EPA 8260) | Total Lead | Comments            |
|--------------------|-------------------|--------------|------------|--------------|--------------------|-------------------------|-----------------|-----------------|----------------------------|------------------------------|------------------------------|------------|---------------------|
| 1. TS-W            | 12/6/99<br>9:15   | W            | 11         | Various      | ①                  |                         |                 |                 |                            |                              |                              |            | <b>HOLD</b>         |
| 2.                 |                   |              |            |              |                    |                         |                 |                 |                            |                              |                              |            |                     |
| 3. PD-1            | 12/6/99//9:00     | S            | 4          | Brass sleeve | ②                  | ✓                       | ✓               | ✓               |                            |                              |                              | ✓          | Confirm             |
| 4. PD-2            | ↓                 | ↓            | ↓          | ↓            | ③                  | ↓                       | ↓               | ↓               |                            |                              |                              | ↓          | Highest MTBE        |
| 5. PD-3            | ↓                 | ↓            | ↓          | ↓            | ④                  | ↓                       | ↓               | ↓               |                            |                              |                              | ↓          | By 8260             |
| 6. PD-4            | ↓                 | ↓            | ↓          | ↓            | ⑤                  | ↓                       | ↓               | ↓               |                            |                              |                              | ↓          |                     |
| 7. PL-1            | ↓                 | ↓            | ↓          | ↓            | ⑥                  | ↓                       | ↓               | ↓               |                            |                              |                              | ↓          |                     |
| 8. PL-2            | ↓                 | ↓            | ↓          | ↓            | ⑦                  | ↓                       | ↓               | ↓               |                            |                              |                              | ↓          | R8/D1               |
| 9.                 |                   |              |            |              |                    |                         |                 |                 |                            |                              |                              |            | R11/D3-R            |
| 10.                |                   |              |            |              |                    |                         |                 |                 |                            |                              |                              |            | Due: 12/20/99<br>R3 |

|                                |                      |                    |                                |                      |                   |
|--------------------------------|----------------------|--------------------|--------------------------------|----------------------|-------------------|
| Relinquished By: <b>Robert</b> | Date: <b>12/6/99</b> | Time: <b>11:15</b> | Received By: <b>Brian Full</b> | Date: <b>12/6/99</b> | Time: <b>5:16</b> |
| Relinquished By: _____         | Date: _____          | Time: _____        | Received By: _____             | Date: _____          | Time: _____       |
| Relinquished By: _____         | Date: _____          | Time: _____        | Received By: _____             | Date: _____          | Time: _____       |

Were Samples Received in Good Condition?  Yes  No     
 Samples on Ice?  Yes  No     
 Method of Shipment \_\_\_\_\_     
 Page \_\_\_ of \_\_\_

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported?  Yes  No     
 If no, what analyses are still needed? \_\_\_\_\_

2) Was the report issued within the requested turnaround time?  Yes  No     
 If no, what was the turnaround time? \_\_\_\_\_

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client  
 Yellow - Sequoia  
 White - Sequoia



January 13, 2000

Service Request No.: S2000006

Mr. Robert Potter  
SECOR International, Inc.  
1225 Pear Avenue  
Suite 110  
Mountain View, CA 94043

**RE: Tosco 11266 Fiber Trench**

Dear Mr. Potter:

Enclosed are the results of the sample(s) submitted to our laboratory on December 6, 1999. All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply to the sample(s) analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Signature of this CAS Analytical Report confirms that pages 2 through 5, following, have been thoroughly reviewed and approved for release.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 2352, expiration: January 31, 2001).

If you have any questions, please call me at (408) 748-9700.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Lori Tyler  
Project Chemist

COLUMBIA ANALYTICAL SERVICES, Inc.

Acronyms

|            |   |
|------------|---|
| A2LA       | American Association for Laboratory Accreditation   |
| ASTM       | American Society for Testing and Materials  |
| BOD        | Biochemical Oxygen Demand   |
| BTEX       | Benzene, Toluene, Ethylbenzene, Xylenes   |
| CAM        | California Assessment Metals  |
| CARB       | California Air Resources Board  |
| CAS Number | Chemical Abstract Service registry Number   |
| CFC        | Chlorofluorocarbon  |
| CFU        | Colony-Forming Unit   |
| COD        | Chemical Oxygen Demand  |
| DEC        | Department of Environmental Conservation  |
| DEQ        | Department of Environmental Quality   |
| DHS        | Department of Health Services   |
| DLCS       | Duplicate Laboratory Control Sample   |
| DMS        | Duplicate Matrix Spike  |
| DOE        | Department of Ecology   |
| DOH        | Department of Health  |
| EPA        | U. S. Environmental Protection Agency   |
| ELAP       | Environmental Laboratory Accreditation Program  |
| GC         | Gas Chromatography  |
| GC/MS      | Gas Chromatography/Mass Spectrometry  |
| IC         | Ion Chromatography  |
| ICB        | Initial Calibration Blank sample  |
| ICP        | Inductively Coupled Plasma atomic emission spectrometry   |
| ICV        | Initial Calibration Verification sample   |
| J          | Estimated concentration. The value is less than the MRL, but greater than or equal to the MDL. If the value is equal to the MRL, the result is actually <MRL before rounding.               |
| LCS        | Laboratory Control Sample   |
| LUFT       | Leaking Underground Fuel Tank   |
| M          | Modified  |
| MBAS       | Methylene Blue Active Substances  |
| MCL        | Maximum Contaminant Level. The highest permissible concentration of a substance allowed in drinking water as established by the U. S. EPA.  |
| MDL        | Method Detection Limit  |
| MPN        | Most Probable Number  |
| MRL        | Method Reporting Limit  |
| MS         | Matrix Spike  |
| MTBE       | Methyl tert-Butyl Ether   |
| NA         | Not Applicable  |
| NAN        | Not Analyzed  |
| NC         | Not Calculated  |
| NCASI      | National Council of the paper industry for Air and Stream Improvement   |
| ND         | Not Detected at or above the method reporting/detection limit (MRL/MDL)   |
| NIOSH      | National Institute for Occupational Safety and Health   |
| NTU        | Nephelometric Turbidity Units   |
| ppb        | Parts Per Billion   |
| ppm        | Parts Per Million   |
| PQL        | Practical Quantitation Limit  |
| QA/QC      | Quality Assurance/Quality Control   |
| RCRA       | Resource Conservation and Recovery Act  |
| RPD        | Relative Percent Difference   |
| SIM        | Selected Ion Monitoring   |
| SM         | Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992  |
| STLC       | Solubility Threshold Limit Concentration  |
| SW         | Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Ed., 1986 and as amended by Updates I, II, IIA, and IIB.  |
| TCLP       | Toxicity Characteristic Leaching Procedure  |
| TDS        | Total Dissolved Solids  |
| TPH        | Total Petroleum Hydrocarbons  |
| tr         | Trace level. The concentration of an analyte that is less than the PQL but greater than or equal to the MDL. If the value is equal to the PQL, the result is actually <PQL before rounding. |
| TRPH       | Total Recoverable Petroleum Hydrocarbons  |
| TSS        | Total Suspended Solids  |
| TTLC       | Total Threshold Limit Concentration   |
| VOA        | Volatile Organic Analyte(s)   |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: SECOR International, Inc.  
Project: Tosco 11266 Fiber Trench  
Sample Matrix: Soil

Service Request: S2000006  
Date Collected: 12/06/99  
Date Received: 12/06/99  
Date TCLP Performed: 1/10-11/00  
Date Extracted: 01/12/00  
Date Analyzed: 01/12/00

Toxicity Characteristic Leaching Procedure (TCLP)  
EPA 1311  
Metals

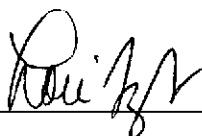
Sample Name: PD-3  
Lab Code: S2000006-001  
Test Notes:

Units: mg/L (ppm)  
Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | Dilution Factor | Regulatory Limit* | Result | Result Notes |
|---------|-------------|-----------------|-----|-----------------|-------------------|--------|--------------|
| Lead    | EPA 3010A   | 6010A           | 0.5 | 1               | 5                 | ND     |              |

\* From 40 CFR Part 261, et al., and Federal Register, March 29, 1990 and June 29, 1990.

Approved By: \_\_\_\_\_



Date: 1-13-00

tclp1S22/080197p



COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: SECOR International, Inc.  
Project: Tosco 11266 Fiber Trench  
Sample Matrix: Soil

Service Request: S2000006  
Date Collected: 12/06/99  
Date Received: 12/06/99  
Date TCLP Performed: 1/10-11/00  
Date Extracted: 01/12/00  
Date Analyzed: 01/12/00

Toxicity Characteristic Leaching Procedure (TCLP)  
EPA 1311  
Metals

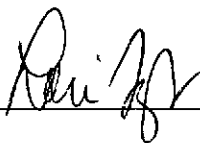
Sample Name: PD-4  
Lab Code: S2000006-002  
Test Notes:

Units: mg/L (ppm)  
Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | Dilution Factor | Regulatory Limit* | Result | Result Notes |
|---------|-------------|-----------------|-----|-----------------|-------------------|--------|--------------|
| Lead    | EPA 3010A   | 6010A           | 0.5 | 1               | 5                 | 1.2    |              |

\* From 40 CFR Part 261, et al., and Federal Register, March 29, 1990 and June 29, 1990.

Approved By: \_\_\_\_\_



Date: 1-13-00

tclp1S22/080197p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: SECOR International, Inc.  
Project: Tosco 11266 Fiber Trench  
Sample Matrix: Soil

Service Request: S2000006  
Date Collected: NA  
Date Received: NA  
Date TCLP Performed: 1/10-11/00  
Date Extracted: 01/12/00  
Date Analyzed: 01/12/00

Toxicity Characteristic Leaching Procedure (TCLP)  
EPA 1311  
Metals

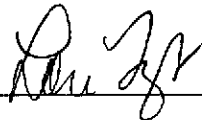
Sample Name: Method Blank  
Lab Code: S200112-MB  
Test Notes:

Units: mg/L (ppm)  
Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | Dilution Factor | Regulatory Limit* | Result | Result Notes |
|---------|-------------|-----------------|-----|-----------------|-------------------|--------|--------------|
| Lead    | EPA 3010A   | 6010A           | 0.5 | 1               | 5                 | ND     |              |

\* From 40 CFR Part 261, et al., and Federal Register, March 29, 1990 and June 29, 1990.

Approved By: \_\_\_\_\_



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

1-13-00



3334 Victor Court • Santa Clara, CA 95054  
 (408) 748-9700 • FAX (408) 748-9860

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

SERVICE REQUEST NO. S2000 0006 SH P.O.# S20 0 0006 PAGE \_\_\_\_ OF \_\_\_\_

PROJECT NAME TDSCO 11266 Fibx#Trench  
 PROJECT MGR. Robert Potter  
 COMPANY SEDL  
 ADDRESS 1225 Pear Ave, Suite 110  
Mountain View, CA 94043 (650) 691-0131  
 PHONE (650) 691-9837  
 FAX

SAMPLER'S SIGNATURE \_\_\_\_\_

| PRESERVATIVE  | ANALYSIS REQUESTED   |  |  |                               |   |  |  |  |  |   |         |         |  |  |  | REMARKS * |  |
|---|--|--|--|-------------------------------|---|--|--|--|--|---|---------|---------|--|--|--|-----------|--|
|   | HCl  | HCl                                      | HCl                                    | NP                            | NP  | NP   | HCl  | HNO <sub>3</sub>   | NP   | H <sub>2</sub> SO <sub>4</sub>  | NaOH    |         |  |  |  |           |  |
| Volatile Organics BY GCMS<br>624 <input type="checkbox"/> 8240 <input type="checkbox"/> 8260 <input type="checkbox"/> | Halogenated or Aromatic Volatiles<br>601/8010 <input type="checkbox"/> 602/8020 <input type="checkbox"/> 8021 <input type="checkbox"/> | TPH as Gas/BTEX <input type="checkbox"/> | TPH as Diesel <input type="checkbox"/> | HBHC <input type="checkbox"/> | Base/Neutral/Acid Organics / GCMS<br>625 <input type="checkbox"/> 8270 <input type="checkbox"/> | Pesticides & PCBs<br>608/8082 <input type="checkbox"/> | Oil and Grease Method<br>TRPH - 418 1 <input type="checkbox"/> | Metals Indicate below<br>Total <input type="checkbox"/> Dissolved <input type="checkbox"/> | pH, Cond, Cl, SO <sub>4</sub> , F, TDS, TSS<br>Alk, NO <sub>3</sub> , NO <sub>2</sub> (circle) | NH <sub>3</sub> -N, COD, Total-P, TKN, TOC<br>NO <sub>3</sub> /NO <sub>2</sub> , Phenols (circle) | Cyanide | TCUP-Pb |  |  |  |           |  |
|   |  |  |  |                               |   |  |  |  |  |   |         |         |  |  |  |           |  |
|   |  |  |  |                               |   |  |  |  |  |   |         |         |  |  |  |           |  |
|   |  |  |  |                               |   |  |  |  |  |   |         |         |  |  |  |           |  |

| SAMPLE I.D. | DATE    | TIME | LAB I.D. | SAMPLE MATRIX | NUMBER OF CONTAINERS |
|-------------|---------|------|----------|---------------|----------------------|
| PD-3        | 12/6/99 |      | ①        | soil          |                      |
| PD-4        | ↓       |      | ②        | ↓             |                      |
|             |         |      |          |               |                      |
|             |         |      |          |               |                      |
|             |         |      |          |               |                      |
|             |         |      |          |               |                      |
|             |         |      |          |               |                      |
|             |         |      |          |               |                      |
|             |         |      |          |               |                      |
|             |         |      |          |               |                      |
|             |         |      |          |               |                      |

RELINQUISHED BY: \_\_\_\_\_  
 Signature  
 Printed Name  
 Firm  
 Date/Time

RECEIVED BY: Joseph Machado  
 Signature  
 Printed Name  
 Firm: CAS  
 Date/Time: 11/4/00 800

RELINQUISHED BY: \_\_\_\_\_  
 Signature  
 Printed Name  
 Firm  
 Date/Time

RECEIVED BY: \_\_\_\_\_  
 Signature  
 Printed Name  
 Firm  
 Date/Time

TURNAROUND REQUIREMENTS  
 \_\_\_ 1 day \_\_\_ 2 day \_\_\_ 3 day  
 \_\_\_ 5 day \_\_\_ Other  
 Standard (10 working days)  
 Results Due 1/17/00

REPORT REQUIREMENTS  
 I. Routine Report  
 \_\_\_ II. Report (includes MS. MSD, as required, may be charged as samples)  
 \_\_\_ III. Data Validation Report (includes All Raw Data)  
 \_\_\_ MDLs/PQLs/Trace #  
 \_\_\_ Electronic Data Deliverables

RELINQUISHED BY: \_\_\_\_\_  
 Signature  
 Printed Name  
 Firm  
 Date/Time

RECEIVED BY: Joseph Machado  
 Signature  
 Printed Name  
 Firm: CAS PC  
 Date/Time: 1/3/00

SAMPLE RECEIPT: Condition \_\_\_\_\_ Custody Seals \_\_\_\_\_

SPECIAL INSTRUCTIONS/COMMENTS:  
 Circle which metals are to be analyzed:  
 Metals: Al Sb Ba Be B Cd Ca Cr Co Cu Fe Mg Mn Mo Ni K Ag Na Sn V Zn  
 As Pb Se Ti Hg  
request for additional analysis per client request originally 59903859 rec'd 12/6/99  
 or 1/13/00

Storage: R3

\*Will sample results be used in connection with drinking water regulations?  Yes  No If yes, you must so indicate by writing "DW" for each such sample.

# SECOR *International Incorporated*

1225 Pear Avenue, Suite 110  
Mountain View, CA 94043-1431

Telephone (650) 691-0131  
Fax (650) 691-9837

## FAX COVER SHEET

Date: 1-3-00

| To: | Name              | Company/Dept. | FAX # |
|-----|-------------------|---------------|-------|
|     | <u>Lori Tyler</u> |               |       |
|     |                   |               |       |
|     |                   |               |       |

From: Robert

Subject: TCLP

Number of Pages (including cover): 2

Message:

Lori -

Please Run TCLP for Lead  
on samples PD-3 and PD-4

Run on Standard Turn.

Thanks!

Robert



3334 Victor Court • Santa Clara, CA 95054  
(408) 748-8700 • FAX (408) 748-9880

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

SERVICE REQUEST NO. 5990408 P.O.# \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

PAGE 06

COLUMBIA ANALYTICAL

4287489869

01/03/1995 04:14

PROJECT NAME TD500 11266 Fiber Trench  
 PROJECT MGR. Robert Potter  
 COMPANY SELD  
 ADDRESS 1225 Pear Ave, Suite 110  
Mountain View, CA 94043  
 PHONE (650) 691-0131  
 FAX (650) 691-9877  
 SAMPLER'S SIGNATURE \_\_\_\_\_

| PRESERVATIVE   | ANALYSIS REQUESTED |     |     |    |    |    |     |                  |    |                                |      | REMARKS * |  |
|--|--------------------|-----|-----|----|----|----|-----|------------------|----|--------------------------------|------|-----------|--|
|  | HCl                | HCl | HCl | NP | NP | NP | HCl | HNO <sub>3</sub> | NP | H <sub>2</sub> SO <sub>4</sub> | NaOH |           |  |
| Volatiles Organics by GCMS<br>824 <input type="checkbox"/> 8240 <input type="checkbox"/> 8260 <input type="checkbox"/>                 |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| Halogenated or Aromatic Volatiles<br>801/8010 <input type="checkbox"/> 802/8020 <input type="checkbox"/> 8021 <input type="checkbox"/> |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| TPH as Gas/BTEX <input type="checkbox"/>   |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| TPH as Gas/BTEX/MTBE <input type="checkbox"/>  |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| MBHC <input type="checkbox"/>  |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| Base/New Acid Organics / GCMS<br>825 <input type="checkbox"/> 8270 <input type="checkbox"/>  |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| Pesticides & PCBs<br>Pesticides only 8081 <input type="checkbox"/> PCBs 8082 <input type="checkbox"/>                                  |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| TPH - 418.1 <input type="checkbox"/>   |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| Oil and Grease Method<br>Total <input type="checkbox"/> Indicate below   |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| pH, Cond, Cl, SO <sub>4</sub> , F, TDS, TSS<br>Alk, NO <sub>3</sub> , NO <sub>2</sub> (nitrite)  |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| Mn, N, COD Total-P, TKN, TOC<br>NO <sub>3</sub> /NO <sub>2</sub> , Phenols (circle)  |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
| Cyanide  |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |
|  |                    |     |     |    |    |    |     |                  |    |                                |      |           |  |

| SAMPLE I.D. | DATE    | TIME | LAB I.D. | SAMPLE MATRIX |
|-------------|---------|------|----------|---------------|
| PD-3        | 12/6/99 |      | ①        | Soil          |
| PD-4        | ↓       |      | ②        | Soil          |
|             |         |      |          |               |
|             |         |      |          |               |
|             |         |      |          |               |
|             |         |      |          |               |
|             |         |      |          |               |
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|             |         |      |          |               |
|             |         |      |          |               |

|   |   |   |   |  |  |  |
|---|---|---|---|--|--|--|
| <b>RELINQUISHED BY:</b><br>Signature _____<br>Printed Name _____<br>Firm _____<br>Date/Time _____ | <b>RECEIVED BY:</b><br>Signature _____<br>Printed Name _____<br>Firm _____<br>Date/Time _____ | <b>RELINQUISHED BY:</b><br>Signature _____<br>Printed Name _____<br>Firm _____<br>Date/Time _____                             | <b>RECEIVED BY:</b><br>Signature _____<br>Printed Name _____<br>Firm _____<br>Date/Time _____ | <b>TURNAROUND REQUIREMENTS</b><br>1 day _____ 2 day _____ 3 day _____<br>5 day _____ Other _____<br><input checked="" type="checkbox"/> Standard (10 working days)<br>Results Due <u>1/6/00</u>  | <b>REPORT REQUIREMENTS</b><br><input checked="" type="checkbox"/> I. Routine Report<br><input type="checkbox"/> II. Report (includes MS, MSD, as required, may be changed as samples)<br><input type="checkbox"/> III. Data Validation Report (includes All Raw Data)<br>WDLs: PQLs: Trace # _____<br>Electronic Data Deliverables _____ |  |
| <b>RELINQUISHED BY:</b><br>Signature _____<br>Printed Name _____<br>Firm _____<br>Date/Time _____ |   | <b>RECEIVED BY:</b><br><br>Signature<br><br>Printed Name<br><u>CAS</u><br>Firm<br><u>SELD</u><br>Date/Time<br><u>12/21/99</u> |   | <b>SAMPLE RECEIPT:</b> Condition _____ Custody Seals _____<br><b>SPECIAL INSTRUCTIONS/COMMENTS:</b><br>Circle which metals are to be analyzed:<br>Metals: Al Sb Ba Be B Cd Ca Cr Co Cu Fe Mg Mn Mo Ni K Ag Na Sn V Zn<br>As Pb Se Ti Hg<br>request for additional analysis per Robert Potter<br>originally 59903959<br>rec'd 12/6/99 |  |  |
| Shipped Via/Tracking # _____  |   | Storage: <u>R3</u>  |   |  |  |  |

01/08/00 MON 15:48 FAX 650 691 9837 SECOR MTN VW 002