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October 25, 1996

Mr. Terrence A. Fox  
Ultramar Inc.  
525 West Third Street  
Hanford, California 93232

Subject: *Report Summarizing Removal of Underground Equipment and Associated Soil Sampling*  
Former Beacon Station No. 546  
29705 Mission Boulevard  
Hayward, California  
Delta Project No. D095-967

Dear Mr. Fox:

Delta Environmental Consultants, Inc. (Delta), was authorized by Ultramar Inc. (Ultramar) to conduct soil sampling during removal of in-ground equipment associated with the former Beacon Service Station No. 546 located at 29705 Mission Boulevard, Hayward, California (Figures 1 and 2). This report summarizes the results of soil sampling activities performed at the site during June and July 1996. All work conducted at the site by Delta was performed in accordance with the field methods and procedures included in Enclosure A.

#### Site Background

The site is located at the intersection of Mission Boulevard and West Industrial Parkway in Hayward, approximately 1,500 feet northeast of the artificially channelized course of Alameda Creek, and approximately 6.5 miles east of the southern portion of San Francisco Bay. Based on the survey of on-site wells, the elevation of the site is approximately 37 feet above mean sea level.

Hayward is situated in the east San Francisco Bay Area, on the Bay plain at the western edge of Walpert Ridge (Figure 1). Ground surface in the area of the site generally slopes toward the southwest. The site is bound on the northwest by West Industrial Parkway and on the northeast by Mission Boulevard. The surrounding area is occupied predominantly by commercial properties.

A total of ten monitoring wells have been installed on or near the site. Information provided by Ultramar indicates that all underground storage tanks previously used at the property by Ultramar, were removed in April 1988.

A detailed summary of previous phases of hydrogeologic investigations is presented in a report prepared by Acton, Mickelson, van Dam, Inc. entitled, *Problem Assessment Report/Remedial Action Plan*, dated April 26, 1995.

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### **Product Line Removed and Soil Sampling**

The product lines were uncovered and removed prior to Delta's arrival on June 28, 1996. Soil samples PL-1A through PL-1G were collected beneath the former product lines at a depth of approximately 2.5 feet below surface grade (bsg) by Delta personnel on June 28, 1996. A representative from the City of Hayward Fire Department was on-site to direct the sampling activities. The soil samples were submitted to Western Environmental Science and Technology (WEST) laboratory in Davis, California for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) using EPA Method 8020, and total petroleum hydrocarbons (TPH) as gasoline using EPA Method 8015 Modified. Soil samples PL-1A, and PL-1C through PL-1G were reported not to contain detectable concentrations of benzene. Benzene was reported in PL-1B at a concentration of 0.71 milligrams per kilogram (mg/kg). TPH as gasoline was reported in soil samples PL-1A, PL-1B, and PL-1E at concentrations of 1.4, 660, and 1,800 mg/kg, respectively. The location of the product line soil samples are illustrated in Figure 3, and the analytical results are summarized in Table 1. Copies of the analytical reports and chain of custody documentation are included in Enclosure B.

### **Unknown Underground Storage Tanks (USTs) Removal and Soil Sampling**

During removal of the product lines and canopy support footings, some unknown piping was discovered in the vicinity of the northerly dispenser island (Figure 3). The unknown piping was subsequently uncovered, and traced to three additional, previously unknown USTs, located near the northeast corner of site (Figure 3). The three unknown USTs were excavated and removed from the site on June 28, 1996. The tanks were estimated to be approximately 250, 300, and 500 gallons in size, and were constructed of single-wall steel. Representatives from Delta, Ultramar, City of Hayward Fire Department, and several representatives from Goines Environmental (excavation contractor) were present at the site during tank removal and soil sampling activities. It is Delta's understanding that each tank was triple-rinsed, dry ice was placed in the 250 and 500 gallon tanks, and the tanks were screened in the field for oxygen content and lower explosive limit under the supervision of the City of Hayward Fire Department representative, prior to Delta's arrival. Dry ice was not placed in the 300-gallon tank because large holes were tore in the tank during excavation. The tanks were removed and transported by Erickson Inc. to their facility in Richmond, California, for disposal. After removal of the tanks, the outer surface was inspected for signs of product leakage, holes, pitting or other visual signs of weakness; particular attention was paid to seams and points directly below the fill ports. Following removal of the tanks, small steel cylindrical reservoirs with a capacity of approximately 20 gallons each were discovered beneath the east end of each tank, and appear to have been associated with the pumping system. The reservoirs were subsequently excavated and removed. The 500-gallon tank had riveted top, side and end seams. The 250 and 300-gallon tanks had identification tag numbers NA-547 and 273292, respectively. The ages of tanks and their installation date is unknown at this time. The bottoms of the 250 and 500 gallon tanks were observed to be rusty, but were otherwise in good condition. Each of the tanks contained a small amount of what appeared to be residual, petroleum hydrocarbon product. The product was pumped out and placed in a 55-gallon drum pending laboratory analysis. The 300-gallon tank was damaged during excavation, which allowed approximately one-fourth of the tank to fill with soil. The soil, which had absorbed the residual liquid in the tank, was subsequently removed. The soil was eventually placed in a 55-gallon drum for disposal.

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Following the removal of the tanks and associated equipment, Goines excavated approximately 2 feet below the base of pump reservoirs for the 250 and 300-gallon tanks. A representative from Delta collected soil samples for chemical analyses and field screening from soil collected by the excavator bucket. Under the direction of the City of Hayward Fire Department representative, soil samples were collected beneath the ends of the 250 and 300-gallon tanks. Soil samples (TB-1A and TB-1B) from the tank basin were collected at approximately 9 feet bsg at the locations illustrated in Figure 3. The method used to screen the soil samples are presented in Enclosure A. The soil samples were submitted to WEST laboratory in Davis, California for analysis of BTEX and TPH as gasoline using the previously described methods, TPH as diesel using EPA Method 8015 Modified, oil and grease using Standard Method 5520 E,F, and CAM 5 metals (cadmium, chromium, lead, nickel and zinc) using EPA Method 6010.

Analytical results reported that benzene, TPH as gasoline, and total oil and grease were below the laboratory's limits of detection in each sample (TB-1A and TB-1B) collected. TPH as diesel was reported in TB-1B at a concentration of 4.2 mg/kg, and was below the laboratory's limits of detection in soil sample TB-1A. The laboratory's reporting limit for sample TB-1A had to be increased from 1 to 5 mg/kg due to interference from high boiling point compounds, which according to the laboratory may have been asphalt. Analytical results for the soil samples collected beneath the tanks and product lines are summarized in Tables 1 and 2, and a copy of the analytical report with chain of custody documentation is included in Enclosure B.

A soil sample (S-Tank 3) was collected from the soil that was removed from Tank 3 and submitted to WEST Laboratory for analysis of BTEX, MTBE, TPH as gasoline, TPH as diesel, CAM 5 metals and oil and grease using the previously described methods; and volatile halocarbons using EPA Method 8010. Analytical results for the Tank 3 soil sample are summarized in Tables 3 and 4. The soil from Tank 3 was subsequently disposed of by Chemical Waste Management of Buttonwillow, California.

#### **Hydraulic Floor Lifts and Oil Sump Excavation and Soil Sampling**

The two hydraulic floor lifts and associated equipment, and an oil sump located in the service bays of the former station building were removed prior to Delta's arrival on-site on July 11, 1996. Soil samples LB-1 and LB-2 were collected 2 feet below the bottom of the hydraulic fluid reservoirs (10 feet bsg). Soil sample OS-1 was collected 2 feet beneath the bottom of the oil sump (5.5 feet bsg). The soil samples were collected under the direction of a City of Hayward Fire Department representative. The soil samples were submitted to WEST laboratory in Davis, California for analyses of BTEX, TPH as gasoline, TPH as diesel, MTBE, total oil and grease, volatile halocarbons, and CAM 5 metals using the previously described methods. The location of soil samples LB-1, LB-2 and OS-1 are illustrated in Figure 3, and the analytical results are summarized in Tables 1 and 2. Copies of the analytical reports and chain of custody documentation are included in Enclosure C.

#### **Overexcavation and Soil Sampling**

Between July 29 and 31, 1996, areas identified during the prior sampling events to contain elevated levels of petroleum hydrocarbons were overexcavated. The areas which were overexcavated included the hydraulic lifts and oil sump, the areas around product line soil samples PL-1B and PL-1E, and the area around the canopy support footing located in the former northern-most dispenser island. A

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Delta representative was on-site during the overexcavation operations to screen the excavated soil using a photoionization device (PID), direct overexcavation activities, and to collect confirmation soil samples. The locations of the confirmation soil samples collected on July 29 and 31, 1996, are illustrated on Figure 3. To expedite the overexcavation process, soil samples were analyzed in the field using a mobile laboratory, provided by Excelchem laboratory of Roseville, California.

#### Hydraulic Lifts and Oil Sump

The area beneath the former hydraulic lifts and oil sump were overexcavated to a depth ranging between 12 and 15 feet bsg between July 29 and 31, 1996. Soil samples collected during overexcavation were submitted to Excelchem laboratory for analysis of BTEX, TPH as gasoline, and total oil and grease using the previously described methods. Soil samples OE-1B and OE-1C which were collected beneath the former hydraulic lifts at a depth of 12 feet bsg were also analyzed for TPH as diesel using the previously described methods. The final limits of overexcavation and confirmation soil sample locations are illustrated in Figure 4. A total of approximately 80 cubic yards of soil were removed during excavation and overexcavation activities. The excavations were reported by Ultramar to have been backfilled with imported fill (silty fine sand).

#### Product Lines and Canopy Support Footings

The soil in the vicinity of product line soil samples PL-1B and PL-1E and the northerly dispenser island's canopy footing was overexcavated between July 29 and 31, 1996. Confirmation soil samples were collected during the overexcavation of these areas at depths ranging from 6 to 22 feet bsg. Overexcavation was halted at 22 feet due to the capability of the excavator. The soil samples were submitted to Excelchem laboratory for analyses of BTEX and TPH as gasoline using the previously described methods. A total of approximately 25 cubic yards was excavated from the area in the vicinity of OE-1D (Figure 4); 20 cubic yards from the area in the vicinity of OE-1H (Figure 4); and 150 cubic yards from the larger overexcavation in the vicinity of PL-1E (Figure 3). The excavations were reported by Ultramar to have been backfilled with imported fill (silty fine sand).

#### Soil Stockpile Sampling and Disposal

During the excavation activities, a total of approximately 305 cubic yards of soil was excavated and stockpiled on-site. Four soil samples were collected for approximately each 50 cubic yards of soil excavated on both July 29 and 31, 1996, for waste characterization. The soil samples were submitted to Excelchem laboratory in Roseville, California to be composited and chemically analyzed. Soil samples collected from the stockpiles generated from the hydraulic lifts and oil sump (SP-1 and SP-2), and unknown tanks (SP-6) area were analyzed for BTEX, TPH as gasoline, TPH as diesel, and total oil and grease using the previously described methods, and CAM 17 metals using EPA Methods 7000/6010. Soil samples collected from the stockpiles generated from the product line overexcavations (SP-3, SP-4, and SP-5) were analyzed for BTEX and TPH as gasoline using the previously described methods. Analytical results are summarized in Tables 3 and 4, and copies of the certified laboratory reports with chain of custody documentation are included in Enclosures D and E. In August 1996, Lutrel Trucking, Inc. of Bakersfield, California transported the stockpiled soil to the TPS disposal facility located in Richmond, California.

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Site Status

- ▲ Based on the information available all structures and equipment associated with retail sales at Former Beacon Service Station No. 546 have been removed.
- ▲ Figure 5 illustrates the status of hydrocarbons in soil as of July 31, 1996.
- ▲ Ultramar plans to have a ground water pumping system installed and operating at the site by the end of the fourth quarter 1996.

Remarks/Signatures

The interpretations contained in this document represent our professional opinions, and are based in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

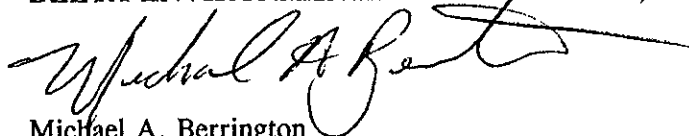
It is recommended that a copy of this document be forwarded to:

Mr. Miles J. Perez  
City of Hayward fire Department  
25151 Clawiter Road  
Hayward, California 94545-2759

If you have any questions regarding this project, please contact Owen Kittredge at (916) 638-2085.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**



Michael A. Berrington  
Project Geologist



Owen M. Kittredge, R.G.  
California Registered Geologist No. 5853

MAB (LRP001.967)  
Enclosures

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TABLE 1

**SOIL SAMPLE ANALYTICAL RESULTS FOR HYDROCARBONS**  
Concentrations in milligrams per kilogram (mg/kg)

Former Beacon Station No. 546  
29705 Mission Boulevard  
Hayward, California

| <u>Sample ID</u>      | <u>Date Sampled</u> | <u>Sample Depth (feet)</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl- benzene</u> | <u>Total Xylenes</u> | <u>TPH<sup>a</sup> as gasoline</u> | <u>TPH as diesel</u> | <u>MTBE<sup>b</sup></u> | <u>Oil and Grease</u> | <u>Volatile Halocarbons</u> |
|-----------------------|---------------------|----------------------------|----------------|----------------|-----------------------|----------------------|------------------------------------|----------------------|-------------------------|-----------------------|-----------------------------|
| <b>Product Lines</b>  |                     |                            |                |                |                       |                      |                                    |                      |                         |                       |                             |
| PL-1A                 | 06/28/96            | 2.5                        | <0.005         | <0.005         | 0.028                 | 0.026                | 1.4                                | NA <sup>c</sup>      | <0.05                   | NA                    | NA                          |
| PL-1B                 | 06/28/96            | 2.5                        | 0.71           | 5.8            | 14                    | 20                   | 660                                | NA                   | <5.0                    | NA                    | NA                          |
| PL-1C                 | 06/28/96            | 2.5                        | <0.005         | <0.005         | <0.005                | <0.005               | <1.0                               | NA                   | <0.05                   | NA                    | NA                          |
| PL-1D                 | 06/28/96            | 2.5                        | <0.005         | <0.005         | <0.005                | <0.005               | <1.0                               | NA                   | <0.05                   | NA                    | NA                          |
| PL-1E                 | 06/28/96            | 2.5                        | <0.5           | 19             | 38                    | 310                  | 1,800                              | NA                   | <5.0                    | NA                    | NA                          |
| PL-1F                 | 06/28/96            | 2.5                        | <0.005         | <0.005         | <0.005                | <0.005               | <1.0                               | NA                   | <0.05                   | NA                    | NA                          |
| PL-1G                 | 06/28/96            | 2.5                        | <0.005         | <0.005         | <0.005                | <0.005               | <1.0                               | NA                   | <0.05                   | NA                    | NA                          |
| <b>Old Tanks</b>      |                     |                            |                |                |                       |                      |                                    |                      |                         |                       |                             |
| TB-1A                 | 06/28/96            | 9                          | <0.005         | <0.005         | <0.005                | 0.007                | <1.0                               | <5.0 <sup>d</sup>    | <0.05                   | <50                   | NA                          |
| TB-1B                 | 06/28/96            | 9                          | <0.005         | <0.005         | <0.005                | <0.005               | <1.0                               | 4.2                  | <0.05                   | <50                   | NA                          |
| <b>Hydraulic Lift</b> |                     |                            |                |                |                       |                      |                                    |                      |                         |                       |                             |
| LB-1                  | 07/11/96            | 10                         | <0.005         | <0.005         | 0.086                 | 0.70                 | 5.3 <sup>e</sup>                   | 58 <sup>e</sup>      | <0.05                   | 350                   | <0.005                      |
| LB-2                  | 07/11/96            | 10                         | <0.005         | <0.005         | 0.023                 | 0.16                 | 9.1 <sup>e</sup>                   | 28 <sup>e</sup>      | <0.05                   | 100                   | <0.005                      |
| <b>Oil Sump</b>       |                     |                            |                |                |                       |                      |                                    |                      |                         |                       |                             |
| OS-1                  | 07/11/96            | 5.5                        | <0.005         | <0.005         | <0.005                | <0.005               | <1.0                               | <10 <sup>h</sup>     | <0.05                   | 120                   | <0.005                      |
| <b>Overexcavation</b> |                     |                            |                |                |                       |                      |                                    |                      |                         |                       |                             |
| OE-1A                 | 07/29/96            | 11.75                      | 1.78           | 4.42           | 72.4                  | 445                  | 3,070                              | NA                   | NA                      | NA                    | NA                          |

TABLE 1-Continued

**SOIL SAMPLE ANALYTICAL RESULTS FOR HYDROCARBONS**  
Concentrations in milligrams per kilogram (mg/kg)

Former Beacon Station No. 546  
29705 Mission Boulevard  
Hayward, California

| <u>Sample ID</u>   | <u>Date Sampled</u> | <u>Sample Depth (feet)</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-benzene</u> | <u>Total Xylenes</u> | <u>TPH<sup>a</sup> as gasoline</u> | <u>TPH as diesel</u> | <u>MTBE<sup>b</sup></u> | <u>Oil and Grease</u> | <u>Volatile Halocarbons</u> |
|--------------------|---------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------------------------------|----------------------|-------------------------|-----------------------|-----------------------------|
| OE-1B              | 07/29/96            | 12                         | <0.025         | <0.025         | 0.032                | 0.273                | 16.1                               | 67 <sup>c</sup>      | NA                      | 128                   | NA                          |
| OE-1C              | 07/29/96            | 12                         | <0.005         | <0.005         | <0.005               | <0.005               | <1.0                               | <10                  | NA                      | <50                   | NA                          |
| OE-1D              | 07/29/96            | 6                          | 0.041          | <0.025         | 0.166                | 0.061                | 7.36                               | NA                   | NA                      | NA                    | NA                          |
| OE-1E              | 07/29/96            | 14.5                       | <2.5           | 49.3           | 96.1                 | 537                  | 3,810                              | NA                   | NA                      | NA                    | NA                          |
| OE-1F              | 07/29/96            | 15.5                       | <2.0           | 16.7           | 28.2                 | 158                  | 1,110                              | NA                   | NA                      | NA                    | NA                          |
| OE-1G              | 07/29/96            | 13.5                       | <0.025         | <0.025         | 0.031                | 0.253                | 18.9                               | NA                   | NA                      | 104                   | NA                          |
| OE-1H              | 07/29/96            | 14                         | <0.005         | <0.005         | <0.005               | <0.005               | <1.0                               | NA                   | NA                      | NA                    | NA                          |
| OE-1I              | 07/31/96            | 18.5                       | <0.5           | 0.78           | 3.15                 | 17.2                 | 188                                | NA                   | NA                      | NA                    | NA                          |
| OE-1J              | 07/31/96            | 15                         | <0.005         | <0.005         | <0.005               | <0.005               | <1.0                               | NA                   | NA                      | <50                   | NA                          |
| OE-1K              | 07/31/96            | 21                         | <0.4           | 6.89           | 10.3                 | 57.3                 | 630                                | NA                   | NA                      | NA                    | NA                          |
| OE-1L              | 07/31/96            | 10                         | <0.05          | <0.05          | 0.068                | 0.544                | 24.8                               | NA                   | NA                      | 78                    | NA                          |
| OE-1M <sup>f</sup> | 07/31/96            | 10                         | <0.025         | <0.025         | 0.025                | 0.287                | 60.9                               | NA                   | NA                      | 126                   | NA                          |
| OE-1N <sup>f</sup> | 07/31/96            | 22                         | <0.05          | 5.19           | 8.74                 | 47.4                 | 540                                | NA                   | NA                      | NA                    | NA                          |
| OE-1O              | 07/31/96            | 12                         | <0.5           | 0.602          | 8.69                 | 44.3                 | 586                                | NA                   | NA                      | NA                    | NA                          |
| OE-1P              | 07/31/96            | 12                         | <1.30          | 4.14           | 31.9                 | 181                  | 1,540                              | NA                   | NA                      | NA                    | NA                          |
| OE-1Q              | 07/31/96            | 12                         | <0.6           | <0.6           | 2.27                 | 9.06                 | 325                                | NA                   | NA                      | NA                    | NA                          |

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TABLE 1-Continued

SOIL SAMPLE ANALYTICAL RESULTS FOR HYDROCARBONS  
 Concentrations in milligrams per kilogram (mg/kg)

Former Beacon Station No. 546  
 29705 Mission Boulevard  
 Hayward, California

| <u>Sample ID</u> | <u>Date Sampled</u> | <u>Sample Depth (feet)</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-benzene</u> | <u>Total Xylenes</u> | <u>TPH<sup>a</sup> as gasoline</u> | <u>TPH as diesel</u> | <u>MTBE<sup>b</sup></u> | <u>Oil and Grease</u> | <u>Volatile Halocarbons</u> |
|------------------|---------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------------------------------|----------------------|-------------------------|-----------------------|-----------------------------|
| OE-1R            | 07/31/96            | 12                         | <0.650         | 0.733          | 14.5                 | 63.4                 | 1,270                              | NA                   | NA                      | NA                    | NA                          |
| OE-1S            | 07/31/96            | 12                         | <0.005         | <0.005         | <0.005               | 0.017                | <1.0                               | NA                   | NA                      | NA                    | NA                          |

<sup>a</sup> Total petroleum hydrocarbons.

<sup>b</sup> Methyl tertiary butyl ether.

<sup>c</sup> Not analyzed.

<sup>d</sup> Increased reporting limit due to interference from high boiling point compounds.

<sup>e</sup> Contains gasoline range product similar to Stoddard Solvent.

<sup>f</sup> Poor surrogate recovery due to matrix interference.

<sup>g</sup> Product not typical of gasoline.

<sup>h</sup> Increased reporting limit due to oil range interference.

<sup>i</sup> Value is approximate, because of interferences.

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TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS FOR METALS  
 Concentrations in milligrams per kilogram (mg/kg)

Former Beacon Station No. 546  
 29705 Mission Boulevard  
 Hayward, California

| <u>Sample ID</u>      | <u>Date Sampled</u> | <u>Sample Depth</u> | <u>Cadmium</u> | <u>Chromium</u> | <u>Lead</u> | <u>Nickel</u> | <u>Zinc</u> |
|-----------------------|---------------------|---------------------|----------------|-----------------|-------------|---------------|-------------|
| <b>Old Tanks</b>      |                     |                     |                |                 |             |               |             |
| TB-1A                 | 06/28/96            | 9                   | <0.40          | 120             | 14          | 160           | 100         |
| TB-1B                 | 06/28/96            | 9                   | <0.40          | 120             | 16          | 160           | 80          |
| <b>Hydraulic Lift</b> |                     |                     |                |                 |             |               |             |
| LB-1                  | 07/11/96            | 10                  | <0.80          | 100             | 19          | 140           | 80          |
| LB-2                  | 07/11/96            | 10                  | <0.40          | 100             | 17          | 140           | 82          |
| <b>Oil Separator</b>  |                     |                     |                |                 |             |               |             |
| OS-1                  | 07/11/96            | 5.5                 | <0.80          | 85              | 14          | 120           | 81          |

\* Sample collected from soil that sluffed into Tank 3 during removal.

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TABLE 3

## SOIL STOCKPILE SAMPLE RESULTS FOR HYDROCARBONS

Concentrations in milligrams per kilogram (mg/kg)

Former Beacon Station No. 546  
29705 Mission Boulevard  
Hayward, California

| <u>Sample ID</u>             | <u>Date Sampled</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-<br/>benzene</u> | <u>Total<br/>Xylenes</u> | <u>TPH<sup>a</sup> as<br/>gasoline</u> | <u>TPH as<br/>diesel</u> | <u>Total Oil<br/>and Grease</u> | <u>Volatile<br/>Halocarbons</u> |
|------------------------------|---------------------|----------------|----------------|---------------------------|--------------------------|--|--------------------------|---------------------------------|---------------------------------|
| S-Tank 3 (Drum) <sup>b</sup> | 06/28/96            | 9.8            | 93             | 32                        | 190                      | 1,600                                  | 150                      | 3,400                           | 2.5 <sup>c</sup>                |
| SP-1A,B,C,D                  | 07/29/96            | <0.005         | <0.005         | <0.005                    | 0.006                    | 1.55                                   | 66 <sup>d</sup>          | 314                             | NA <sup>e</sup>                 |
| SP-1E,F,G,H                  | 07/31/96            | <0.005         | <0.005         | 0.008                     | 0.081                    | 2.26                                   | <1.0                     | 56                              | NA                              |
| SP-2A,B,C,D                  | 07/29/96            | <0.005         | <0.005         | 0.009                     | 0.073                    | 4.34                                   | 168 <sup>d</sup>         | 380                             | NA                              |
| SP-2E,F,G,H                  | 07/31/96            | <0.005         | <0.005         | 0.006                     | 0.065                    | 4.82                                   | <5.0                     | 292                             | NA                              |
| SP-3A,B,C,D                  | 07/29/96            | <0.275         | 0.525          | 3.78                      | 22.6                     | 236                                    | NA                       | NA                              | NA                              |
| SP-3E,F,G,H                  | 07/31/96            | <0.130         | 0.198          | 0.382                     | 2.17                     | 50.0                                   | NA                       | NA                              | NA                              |
| SP-3I,J,K,L                  | 07/31/96            | <0.650         | 0.175          | 2.39                      | 12.6                     | 244                                    | NA                       | NA                              | NA                              |
| SP-4A,B,C,D                  | 07/29/96            | <0.005         | 0.009          | 0.025                     | 0.169                    | 2.04                                   | NA                       | NA                              | NA                              |
| SP-5A,B,C,D                  | 07/29/96            | <0.040         | <0.040         | <0.040                    | 0.076                    | 11.7                                   | NA                       | NA                              | NA                              |
| SP-6A,B,C,D                  | 07/31/96            | 0.012          | 0.094          | 0.023                     | 0.250                    | 1.48                                   | <2.0                     | 134                             | NA                              |

<sup>a</sup> Total petroleum hydrocarbon.<sup>b</sup> Sample collected from soil that sluffed into Tank 3 during removal.<sup>c</sup> 1,2-Dichloroethane. *ok 2.5ppm*<sup>d</sup> Value is approximate, because of interferences.<sup>e</sup> Not analyzed.

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TABLE 4

**SOIL STOCKPILE ANALYTICAL RESULTS FOR METALS**  
Concentrations in milligrams per kilogram (mg/kg)

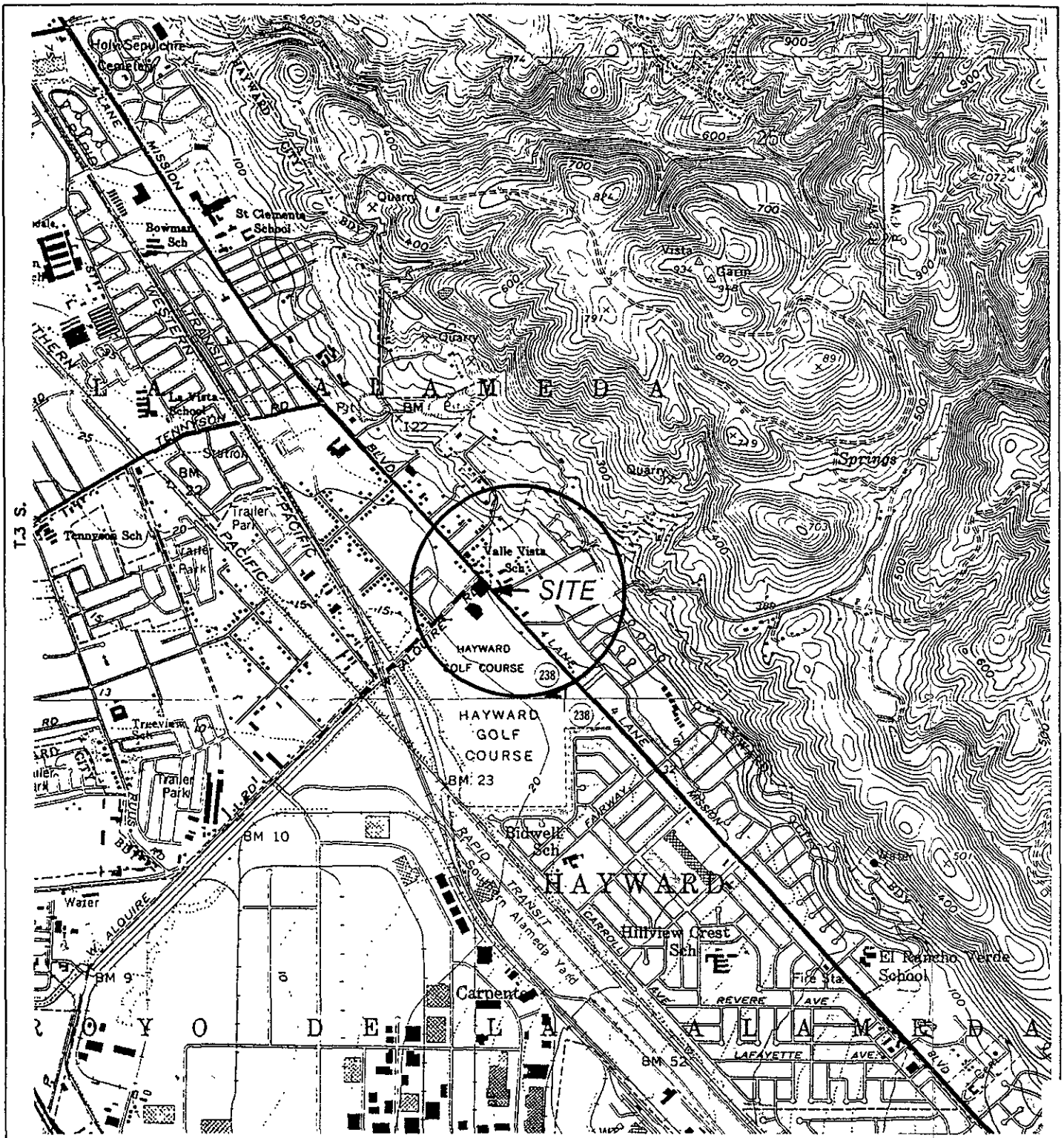
Former Beacon Station No. 546  
29705 Mission Boulevard  
Hayward, California

| <u>Sample ID</u> | <u>Date Sampled</u> | <u>Antimony</u> | <u>Arsenic</u> | <u>Barium</u> | <u>Beryllium</u> | <u>Cadmium</u> | <u>Chromium</u> | <u>Cobalt</u> | <u>Copper</u> | <u>Total Lead</u> | <u>Mercury</u> | <u>Molybdenum</u> | <u>Nickel</u> | <u>Selenium</u> | <u>Silver</u> | <u>Thallium</u> | <u>Vanadium</u> | <u>Zinc</u> |
|------------------|---------------------|-----------------|----------------|---------------|------------------|----------------|-----------------|---------------|---------------|-------------------|----------------|-------------------|---------------|-----------------|---------------|-----------------|-----------------|-------------|
| S-Tank 3 (Drum)  | 06/28/96            | NA <sup>b</sup> | NA             | NA            | NA               | 19             | 65              | NA            | NA            | 220 <sup>a</sup>  | NA             | NA                | 75            | NA              | NA            | NA              | NA              | 5,100       |
| SP-1 E,F,G,H     | 07/31/96            | 0.67            | 5.8            | 182           | <0.05            | <0.15          | 59              | 17            | 49            | 10 <sup>a</sup>   | <0.10          | 1.1               | 86            | 0.63            | <0.05         | 3.8             | 61              | 78          |
| SP-2 E,F,G,H     | 07/31/96            | 0.75            | 7.1            | 145           | 0.059            | <0.15          | 51              | 14            | 42            | 8.9 <sup>a</sup>  | 0.11           | 1.6               | 67            | 0.95            | 0.10          | 4.1             | 59              | 73          |
| SP-3 I,J,K,L     | 07/31/96            | NA              | NA             | NA            | NA               | NA             | NA              | NA            | NA            | 7.8 <sup>c</sup>  | NA             | NA                | NA            | NA              | NA            | NA              | NA              | NA          |
| SP-4 A,B,C,D     | 07/29/96            | NA              | NA             | NA            | NA               | NA             | NA              | NA            | NA            | 25.4 <sup>c</sup> | NA             | NA                | NA            | NA              | NA            | NA              | NA              | NA          |
| SP-5 A,B,C,D     | 07/29/96            | NA              | NA             | NA            | NA               | NA             | NA              | NA            | NA            | 20.8 <sup>c</sup> | NA             | NA                | NA            | NA              | NA            | NA              | NA              | NA          |
| SP-6 A,B,C,D     | 07/31/96            | 1.2             | 6.1            | 192           | <0.05            | <0.15          | 107             | 19            | 42            | 9.9 <sup>a</sup>  | <0.10          | 0.94              | 120           | 0.57            | 0.32          | 4.3             | 71              | 83          |

<sup>a</sup> Analyzed by EPA Method 6010.

<sup>b</sup> Not analyzed.

<sup>c</sup> Analyzed by EPA Method 7420.



GENERAL NOTES:  
 BASE MAP FROM U.S.G.S.  
 HAYWARD AND NEWARK, CA.  
 7.5 MINUTE TOPOGRAPHIC  
 PHOTOREVISED 1980



R.2 W.

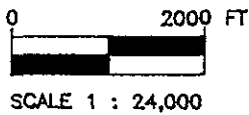


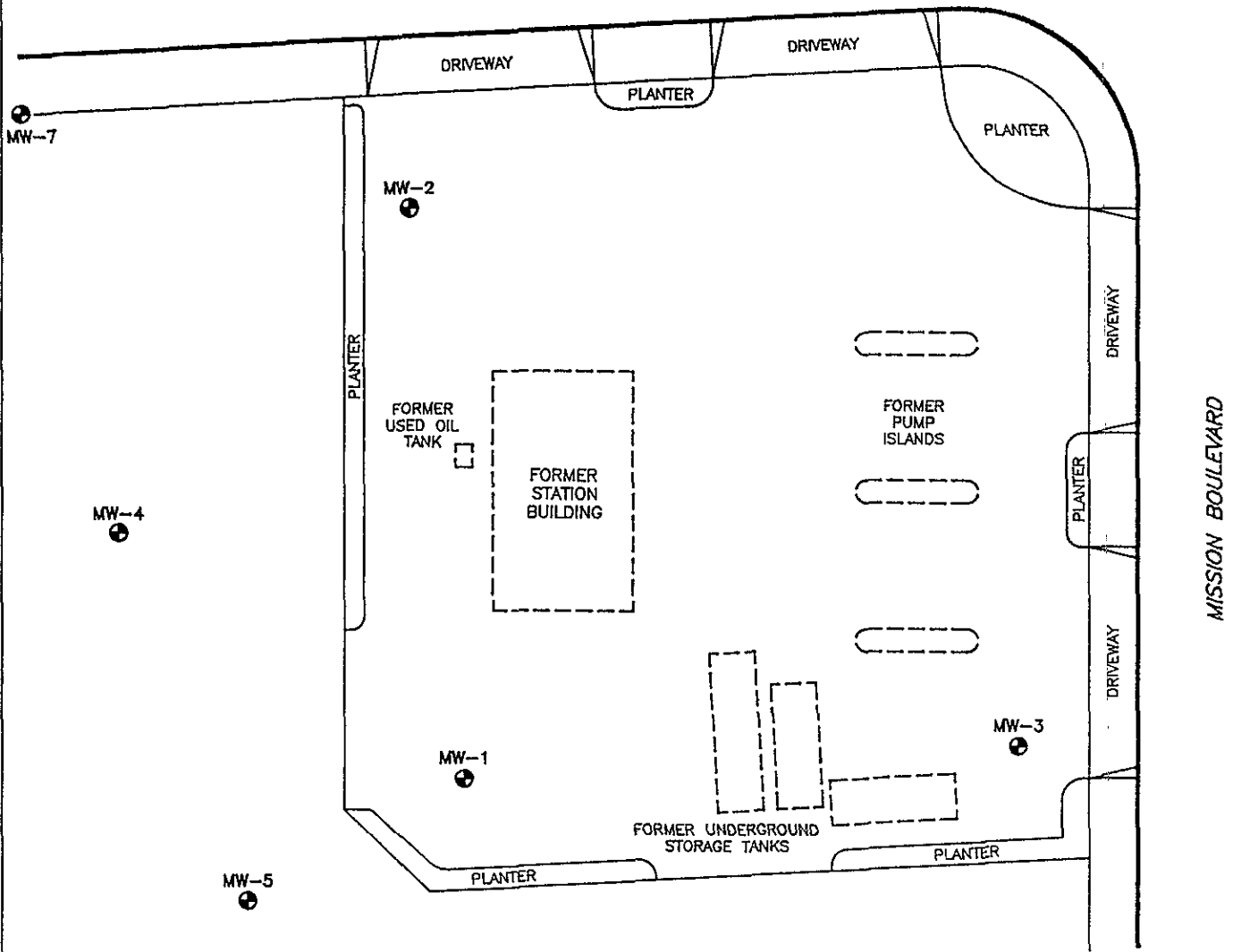
FIGURE 1  
 SITE LOCATION MAP  
 FORMER BEACON STATION NO. 546  
 29705 MISSION BOULEVARD  
 HAYWARD, CA.

|                         |                         |
|-------------------------|-------------------------|
| PROJECT NO.<br>0095-967 | DRAWN BY<br>LH. 7/18/96 |
| FILE NO.<br>---         | PREPARED BY<br>OMK      |
| REVISION NO.<br>1       | REVIEWED BY<br>         |



23010000

WEST INDUSTRIAL PARKWAY



LEGEND:

⊕ MW-1 MONITORING WELL LOCATION



BO010034

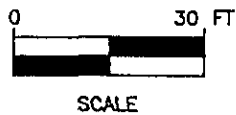

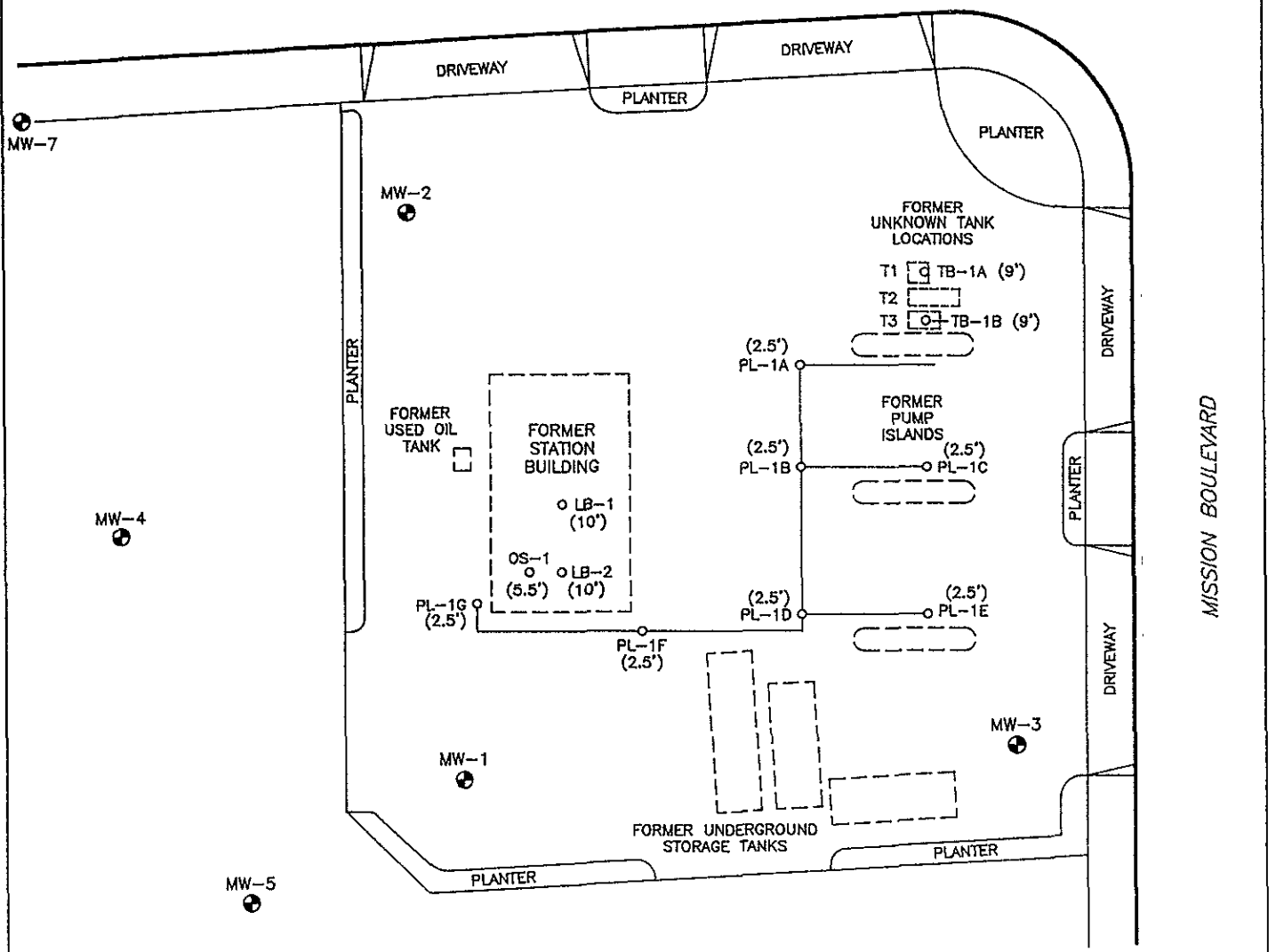


FIGURE 2  
SITE MAP  
FORMER BEACON STATION NO. 546  
29705 MISSION BOULEVARD  
HAYWARD, CA.

|                         |                                   |   |
|-------------------------|-----------------------------------|---|
| PROJECT NO.<br>0095-987 | DRAWN BY<br>I.H. 7/18/98          |  |
| FILE NO.<br>95-987-1    | PREPARED BY<br>OMK                |   |
| REVISION NO.<br>1       | REVIEWED BY<br><i>[Signature]</i> |   |

WEST INDUSTRIAL PARKWAY



SCALE

LEGEND:

- ⊕ MW-1 MONITORING WELL LOCATION
- PL-1C SOIL SAMPLE LOCATION
- T1 250 GALLON SINGLE-WALL STEEL TANK
- T2 500 GALLON SINGLE-WALL STEEL RIVETED TANK
- T3 300 GALLON SINGLE-WALL STEEL TANK

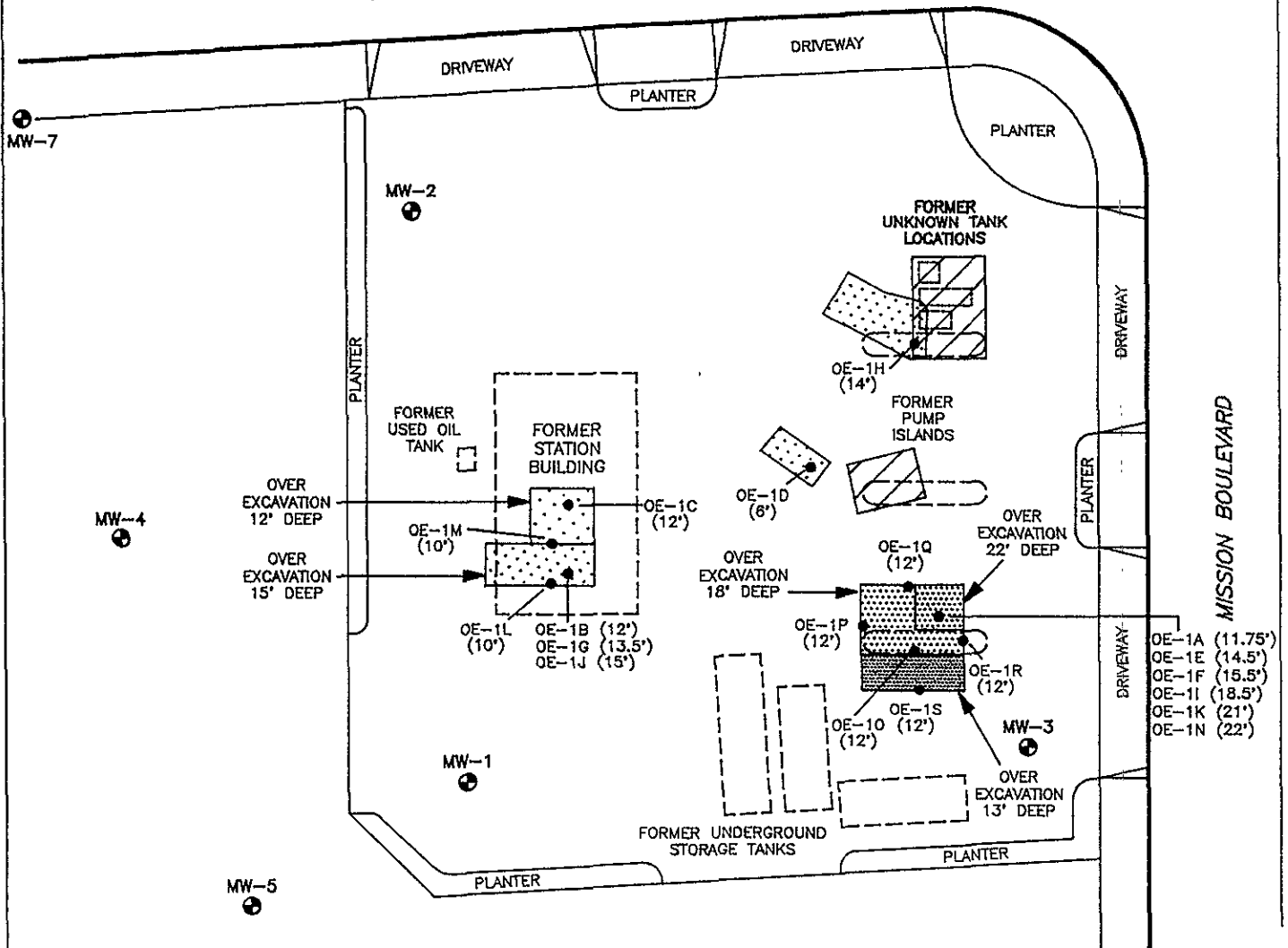
**FIGURE 3**  
**SOIL SAMPLE LOCATION MAP**  
 6/28/96 AND 7/11/96  
 FORMER BEACON STATION NO. 546  
 29705 MISSION BOULEVARD  
 HAYWARD, CA.

|                         |                          |
|-------------------------|--------------------------|
| PROJECT NO.<br>D095-967 | DRAWN BY<br>M.L. 9/27/96 |
| FILE NO.<br>95-967-1    | PREPARED BY<br>MAB       |
| REVISION NO.<br>2       | REVIEWED BY<br>          |

**Delta**  
Environmental  
Consultants, Inc.

BO010035

WEST INDUSTRIAL PARKWAY



LEGEND:

- ⊙ MW-1 MONITORING WELL LOCATION
- ⊙ OE-1C SOIL SAMPLE LOCATION
- (12') DEPTH OF SOIL SAMPLE IN FEET BELOW GRADE
- [Dotted Box] LIMITS OF OVER-EXCAVATION
- [Hatched Box] RE-EXCAVATED PREVIOUS BACKFILL MATERIAL FOR COMPACTION

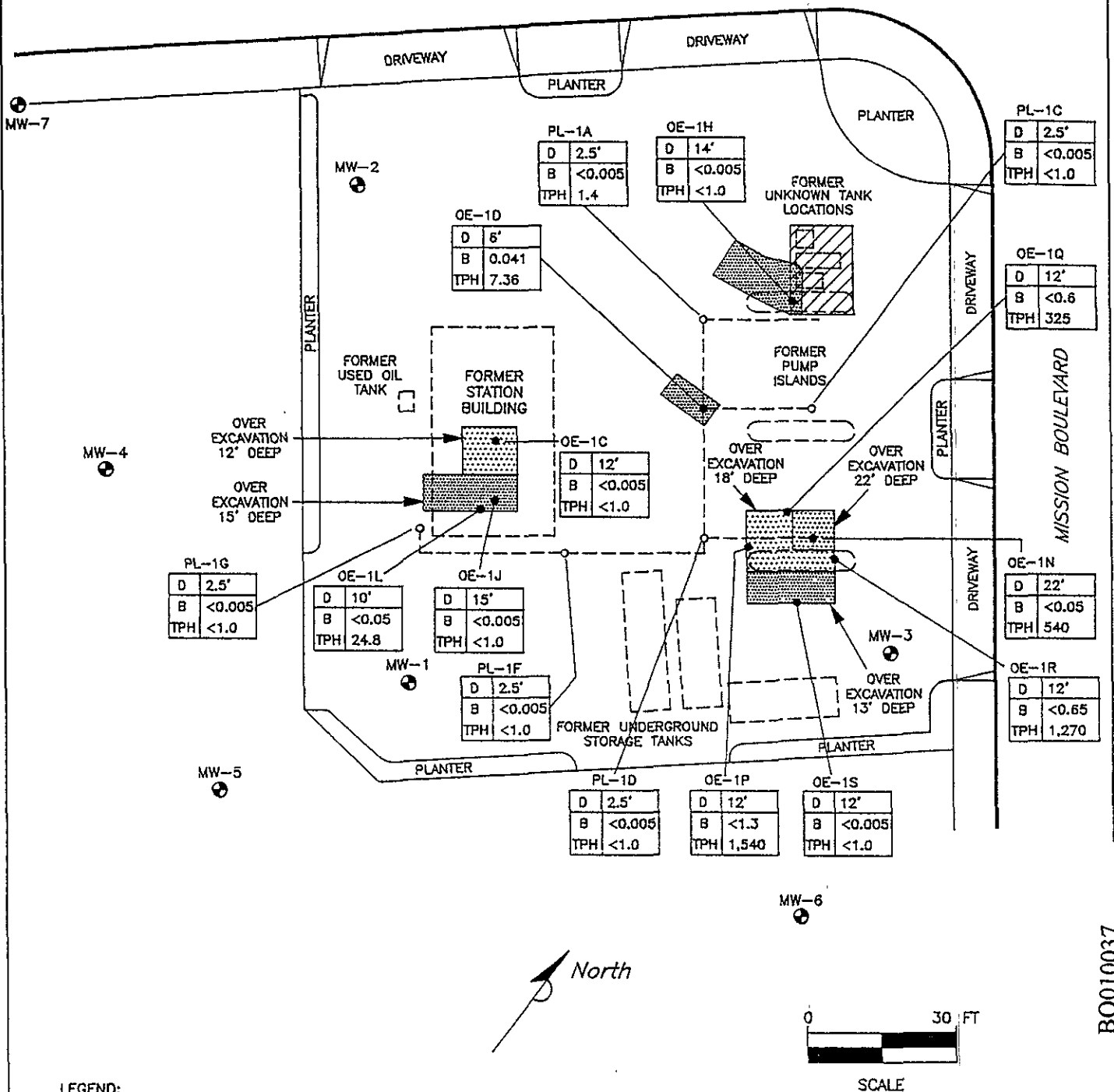
**FIGURE 4**  
**OVER-EXCAVATION SOIL SAMPLE LOCATION MAP**  
 7/29/96 AND 7/31/96  
 FORMER BEACON STATION NO. 546  
 29705 MISSION BOULEVARD  
 HAYWARD, CA.

|                         |                         |
|-------------------------|-------------------------|
| PROJECT NO.<br>D095-967 | DRAWN BY<br>M.L. 9/3/96 |
| FILE NO.<br>95-967-1    | PREPARED BY<br>MAB      |
| REVISION NO.<br>1       | REVIEWED BY<br>         |

**Delta**  
 Environmental  
 Consultants, Inc.

BO010036

WEST INDUSTRIAL PARKWAY



LEGEND:

- ⊕ MW-1 MONITORING WELL LOCATION
  - OE-1C SOIL SAMPLE LOCATION
  - [Dotted Box] LIMITS OF OVER-EXCAVATION
  - [Hatched Box] RE-EXCAVATED TEMPORARY BACKFILL MATERIAL AND BACKFILLED WITH IMPORTED FILL
- |     |        |                                     |
|-----|--------|-------------------------------------|
| D   | 2.5'   | DEPTH OF SAMPLE IN FEET BELOW GRADE |
| B   | <0.005 | BENZINE CONCENTRATION IN mg/Kg      |
| TPH | <1.0   | TPH AS GASOLINE IN mg/Kg            |

**FIGURE 5**  
**STATUS OF HYDROCARBONS IN SOIL**  
**AS OF JULY 31, 1996**  
**FORMER BEACON STATION NO. 546**  
**29705 MISSION BOULEVARD**  
**HAYWARD, CA.**

|                         |                                   |
|-------------------------|-----------------------------------|
| PROJECT NO.<br>D095-967 | DRAWN BY<br>M.L. 9/3/96           |
| FILE NO.<br>95-967-1    | PREPARED BY<br>MAB                |
| REVISION NO.<br>1       | REVIEWED BY<br><i>[Signature]</i> |

**Delta**  
Environmental  
Consultants, Inc.

B0010037



**ENCLOSURE A**

Field Methods and Procedures

BO010038

## **1.0 PRE-FIELD WORK ACTIVITIES**

### **1.1 Health and Safety Plan**

Field work performed by Delta and subcontractors at the site is conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document which describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP is at the site and available for reference by appropriate parties during work at the site.

### **1.2 Locating Underground Utilities**

Prior to commencement of any work that is to be below surface grade, the location of the excavation, boring, etc. is marked with white paint as required by law. An underground locating service such as Underground Service Alert (USA) is contacted. The locating USA contacts the owners of the various utilities in the vicinity of the site to have the utility owners mark the locations of their underground utilities. Any invasive work is preceded by manual hand augering to a minimum depth of five feet below surface grade to avoid contact with underground utilities.

## **2.0 FIELD METHODS AND PROCEDURES**

### **2.1 Soil Excavation Sampling**

Excavation and subsequent soil sampling is performed under the direction of a registered geologist or civil engineer. To reduce the potential for cross-contamination, all excavation equipment is either steam-cleaned or washed prior to use and between excavations. Soil samples are typically collected directly from the excavation surface or from material removed from the excavation in a backhoe or excavator bucket. A portion of the sample may be screened in the field, when required. Another portion of the sample may be used to describe the excavated material, according to the Soil Classification Section. According to the soil sample screened method section.

Soil samples for chemical analysis are collected in cleaned, brass or stainless steel tubes of varying diameters and lengths (typically two by six inches) or other appropriate cleaned sample container. A hand-driven sampler holding the sample container may be used. To reduce the potential for cross-contamination between samples, the sampler is cleaned between each sampling event. Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with

plastic caps over a Teflon® sheet. The sealed sample is labeled and handled according to the Quality Assurance Plan.

## **2.2 Soil Sample Screening**

After the soil samples in Ziploc® type bags have been brought to ambient temperature, the headspace vapors in the bag are screened with a photoionization detector equipped with a 10.2 eV lamp. The corner of the bag is opened and the detector probe immediately placed within the headspace. The highest observed reading is recorded.

## **2.3 Stockpile Soil Sampling**

Stockpile soil sampling is performed under the direction of a registered geologist or civil engineer. Prior to collecting soil samples Delta personnel will measure and calculate the volume of soil in the stockpile(s). The stockpile(s) is then divided into sections containing the predetermined volume sampling interval (50, 100, 200, 500 yd<sup>3</sup>, etc.). Soil samples are typically collected from 0.5 to 2 feet below the surface of the stockpile. In some instances two to four soil samples may be collected from each sampling interval and composited into one prior to laboratory analysis. The soil samples are collected in cleaned, brass or stainless tubes of varying diameter and lengths (typically 2 x 6 inches) or other appropriately cleaned sample containers. A hand-driven sampler holding the sample container may be used.

To reduce the potential for cross-contamination between samples, the sampler is cleaned between each sampling event. Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end a Teflon® sheet and with plastic caps. The sample is then placed in a Ziploc® type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

## **3.0 QUALITY ASSURANCE PLAN**

This section describes the field and analytical procedures to be followed throughout the investigation.

### **3.1 General Sample Collection and Handling Procedures**

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to

analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

### **3.2 Soil and Water Sample Labeling and Preservation**

Label information includes a unique sample identification number, job identification number, date, and time. After labeling all soil and water samples are placed in a Ziploc® type bag and placed in a ice chest cooled to 4° Celsius. Upon arriving at Delta's office the samples are transferred to a locked refrigerator cooled to 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain of custody form.

### **3.3 Sample Identification and Chain-of-Custody Procedures**

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. Samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis.

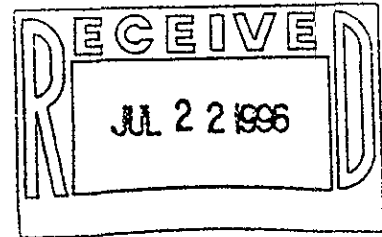
If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory in the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

BO010041

**ENCLOSURE B**

Laboratory Analytical Reports for Soil Samples  
Collected on June 28, 1996

BO010042



Owen Kittredge  
Delta Environmental Consultants  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Subject : 10 soil samples  
Project Name : Beacon 548  
Project Number : DO95-967

Location : Hayward

Dear Mr. Kittredge,

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

WEST Laboratory is certified by the State of California (# 1346). If you have any questions regarding procedures or results, please call me at 916-753-9500.

Sincerely,

  
Joel L. Kiff

BO010043

Subject : 10 soil samples  
Project Name : Beacon 546  
Project Number : DO95-967  
  
Location : Hayward

## Case Narrative

Sample S-Tank 3 was analyzed within hold time by EPA Method 8010. Because of high levels of 1,2-Dichloroethane, a methanol extraction of the sample was prepared, also within hold time. The methanol extract was measured to determine the reported values.

  
Joel L. Kiff

## Volatile Halocarbons

Sample Name : S-Tank 3

Project Name : Beacon 546

Project Number : DO95-967

Sample Date : 06/28/96

Date Analyzed : 07/15/96

Analysis Method : EPA 8010

Date Received : 06/28/96

Dilution : 1:100

Sample Matrix : Soil

Lab Number : 15025-10

| Parameter                 | MRL         | Measured Conc. | Units      |
|---------------------------|-------------|----------------|------------|
| Chloromethane             | 0.50        | <0.50          | mg/Kg      |
| Vinyl Chloride            | 0.50        | <0.50          | mg/Kg      |
| Bromomethane              | 0.50        | <0.50          | mg/Kg      |
| Chloroethane              | 0.50        | <0.50          | mg/Kg      |
| Trichlorofluoromethane    | 0.50        | <0.50          | mg/Kg      |
| 1,1-Dichloroethene        | 0.50        | <0.50          | mg/Kg      |
| Dichloromethane           | 0.50        | <0.50          | mg/Kg      |
| t-1,2-Dichloroethene      | 0.50        | <0.50          | mg/Kg      |
| 1,1-Dichloroethane        | 0.50        | <0.50          | mg/Kg      |
| c-1,2-Dichloroethene      | 0.50        | <0.50          | mg/Kg      |
| Chloroform                | 0.50        | <0.50          | mg/Kg      |
| 1,1,1-Trichloroethane     | 0.50        | <0.50          | mg/Kg      |
| Carbon Tetrachloride      | 0.50        | <0.50          | mg/Kg      |
| <b>1,2-Dichloroethane</b> | <b>0.50</b> | <b>2.5</b>     | mg/Kg      |
| Trichloroethene           | 0.50        | <0.50          | mg/Kg      |
| 1,2-Dichloropropane       | 0.50        | <0.50          | mg/Kg      |
| Bromodichloromethane      | 0.50        | <0.50          | mg/Kg      |
| c-1,3-Dichloropropene     | 0.50        | <0.50          | mg/Kg      |
| t-1,3-Dichloropropene     | 0.50        | <0.50          | mg/Kg      |
| 1,1,2-trichloroethane     | 0.50        | <0.50          | mg/Kg      |
| Tetrachloroethene         | 0.50        | <0.50          | mg/Kg      |
| Dibromochloromethane      | 0.50        | <0.50          | mg/Kg      |
| Chlorobenzene             | 0.50        | <0.50          | mg/Kg      |
| Bromoform                 | 0.50        | <0.50          | mg/Kg      |
| 1,1,2,2-Tetrachloroethane | 0.50        | <0.50          | mg/Kg      |
| 1,3-Dichlorobenzene       | 0.50        | <0.50          | mg/Kg      |
| 1,4-Dichlorobenzene       | 0.50        | <0.50          | mg/Kg      |
| 1,2-Dichlorobenzene       | 0.50        | <0.50          | mg/Kg      |
| 2-Chlorotoluene (Sum.)    |             | 23.9           | % Recovery |

MRL = Method Reporting Limit Conc. = Concentration

B = Analyte was detected in Method Blank.

E = Concentration exceeded calibration range. See higher dilution for correct value.

Approved By :

  
Josef L. Kiff



July 03, 1996  
Sample Log 15025-08

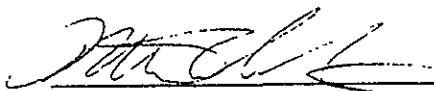
Sample : TB-1A  
From : Beacon 546 (Project # D093-967)  
Matrix : Soil  
Report As : wet weight

Date Sampled : 06/28/96  
Date Received : 06/28/96  
Units : (mg/kg)

Metals Analyses by ICP by SW-846  
5 LUFT "Waste Oil" Metals

| Analyte       | Result | MRL  | EPA Method | Date Digested | Date Analyzed |
|---------------|--------|------|------------|---------------|---------------|
| Cadmium (Cd)  | <0.40  | 0.40 | 6010       | 07/02/96      | 07/02/96      |
| Chromium (Cr) | 120    | 0.70 | 6010       | 07/02/96      | 07/02/96      |
| Lead (Pb)     | 14     | 10   | 6010       | 07/02/96      | 07/02/96      |
| Nickel (Ni)   | 160    | 1.5  | 6010       | 07/02/96      | 07/02/96      |
| Zinc (Zn)     | 100    | 1.0  | 6010       | 07/02/96      | 07/02/96      |

MRL = Method Reporting Limit



Michelle L. Anderson  
Inorganics Supervisor

BO010046

July 03, 1996  
Sample Log 15025-09

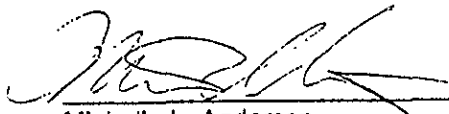
Sample : TB-1B  
From : Beacon 546 (Project # D093-967)  
Matrix : Soil  
Report As : wet weight

Date Sampled : 06/28/96  
Date Received : 06/28/96  
Units : (mg/kg)

Metals Analyses by ICP by SW-846  
5 LUFT "Waste Oil" Metals

| Analyte       | Result | MRL  | EPA Method | Date Digested | Date Analyzed |
|---------------|--------|------|------------|---------------|---------------|
| Cadmium (Cd)  | <0.40  | 0.40 | 6010       | 07/02/96      | 07/02/96      |
| Chromium (Cr) | 120    | 0.70 | 6010       | 07/02/96      | 07/02/96      |
| Lead (Pb)     | 16     | 10   | 6010       | 07/02/96      | 07/02/96      |
| Nickel (Ni)   | 160    | 1.5  | 6010       | 07/02/96      | 07/02/96      |
| Zinc (Zn)     | 80     | 1.0  | 6010       | 07/02/96      | 07/02/96      |

MRL = Method Reporting Limit



Michelle L. Anderson  
Inorganics Supervisor

BO010047

July 03, 1996  
Sample Log 15025-10

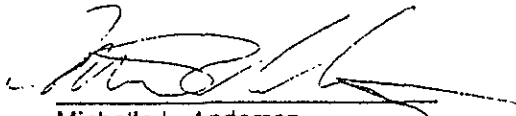
Sample : S-TANK 3  
From : Beacon 546 (Project # D093-967)  
Matrix : Soil  
Report As : wet weight

Date Sampled : 06/28/96  
Date Received : 06/28/96  
Units : (mg/kg)

Metals Analyses by ICP by SW-846  
5 LUFT "Waste Oil" Metals

| Analyte       | Result | MRL  | EPA Method | Date Digested | Date Analyzed |
|---------------|--------|------|------------|---------------|---------------|
| Cadmium (Cd)  | 19     | 0.40 | 6010       | 07/02/96      | 07/02/96      |
| Chromium (Cr) | 65     | 0.70 | 6010       | 07/02/96      | 07/02/96      |
| Lead (Pb)     | 220    | 10   | 6010       | 07/02/96      | 07/02/96      |
| Nickel (Ni)   | 75     | 1.5  | 6010       | 07/02/96      | 07/02/96      |
| Zinc (Zn)     | 5100   | 10   | 6010       | 07/02/96      | 07/02/96      |

MRL = Method Reporting Limit



Michelle L. Anderson  
Inorganics Supervisor

BO010048

July 03, 1996

**Metals QC Report for Sample Log 15025**From : Beacon 546 (Project # D093-967)  
Matrix : Soil

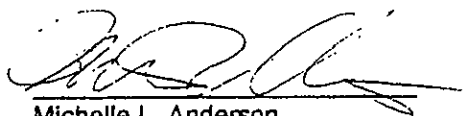
Units : (mg/kg)

| Method Blank  |        |      |            |               |               |
|---------------|--------|------|------------|---------------|---------------|
| Analyte       | Result | MRL  | EPA Method | Date Digested | Date Analyzed |
| Cadmium (Cd)  | <0.40  | 0.40 | 6010       | 07/02/96      | 07/02/96      |
| Chromium (Cr) | <0.70  | 0.70 | 6010       | 07/02/96      | 07/02/96      |
| Lead (Pb)     | <10    | 10   | 6010       | 07/02/96      | 07/02/96      |
| Nickel (Ni)   | <1.5   | 1.5  | 6010       | 07/02/96      | 07/02/96      |
| Zinc (Zn)     | <1.0   | 1.0  | 6010       | 07/02/96      | 07/02/96      |

MRL = Method Reporting Limit

| Laboratory Control Sample (LCS) |            |            |               |               |  |
|---------------------------------|------------|------------|---------------|---------------|--|
| Analyte                         | % Recovery | EPA Method | Date Digested | Date Analyzed |  |
| Cadmium (Cd)                    | 101        | 6010       | 07/02/96      | 07/02/96      |  |
| Chromium (Cr)                   | 103        | 6010       | 07/02/96      | 07/02/96      |  |
| Lead (Pb)                       | 94         | 6010       | 07/02/96      | 07/02/96      |  |
| Nickel (Ni)                     | 106        | 6010       | 07/02/96      | 07/02/96      |  |
| Zinc (Zn)                       | 100        | 6010       | 07/02/96      | 07/02/96      |  |

LCS Limits are 85 - 115%.

Michelle L. Anderson  
Inorganics Supervisor

B0010049

July 03, 1996

**Metals QC Report for Sample Log 15025 (cont'd)**

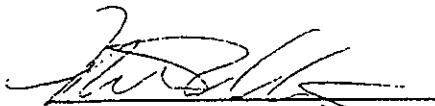
From : Beacon 546 (Project # D093-967)

Sample Spiked for MS/MSD : 15025-08

**Matrix Spikes**

| Analyte       | MS<br>% Recov | MSD<br>% Recov | RPD | EPA Method | Date<br>Digested | Date<br>Analyzed |
|---------------|---------------|----------------|-----|------------|------------------|------------------|
| Cadmium (Cd)  | 97            | 102            | 5   | 6010       | 07/02/96         | 07/02/96         |
| Chromium (Cr) | NA            | NA             | NA  | 6010       | 07/02/96         | 07/02/96         |
| Lead (Pb)     | 97            | 106            | 9   | 6010       | 07/02/96         | 07/02/96         |
| Nickel (Ni)   | 97            | 92             | 5   | 6010       | 07/02/96         | 07/02/96         |
| Zinc (Zn)     | 99            | 110            | 11  | 6010       | 07/02/96         | 07/02/96         |

MS = Matrix Spike      MSD = Matrix Spike Duplicate      RPD = Relative Percent Difference  
Spike Recovery Limits for Matrix Spikes are 75 - 125%. RPD Limits are  $\pm 20\%$ .  
NA = The concentration of the sample that was spiked was 4 times higher than the spike  
concentration, so the samples were not analytically spiked.



Michelle L. Anderson  
Inorganics Supervisor

B0010050

Sample: TB-1A

From : Beacon 546 (Proj. # D095-967)

Sampled : 06/28/96

Extracted: 07/01/96

Dilution : 1:1

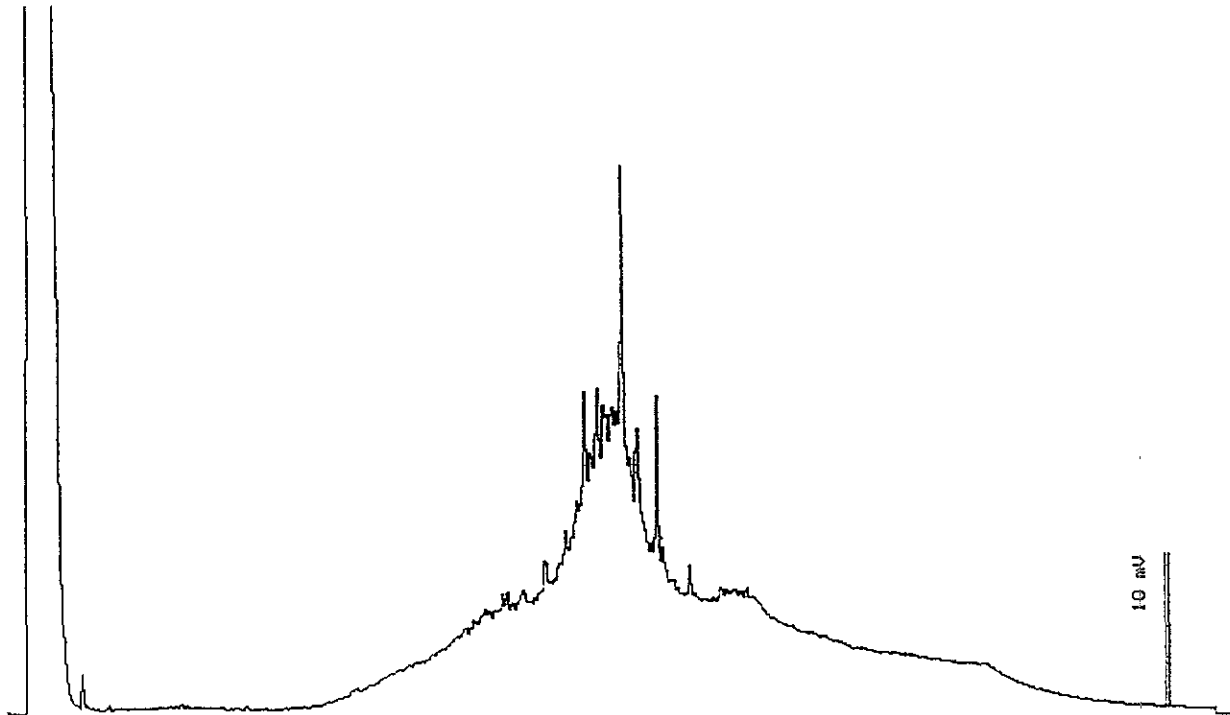
Matrix : Soil

QC Batch : DS960702

Run Log : 7330A

| Parameter     | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|---------------|-------------------------------|--|
| TPH as Diesel | (5.0)                         | <5.0 *                                 |

\* Increased reporting limit due to interference from high boiling point compounds.



EPA Mod 8015

Date: 07-02-96 Time: 15:01:20  
Column : 0.53mm ID X 15m Rtx-1 (Restek Corporation)

*Stewart Podolsky*  
Stewart Podolsky  
Senior Chemist

B0010051

Sample: TB-1B

From : Beacon 546 (Proj. # D095-967)

Sampled : 06/28/96

Extracted: 07/01/96

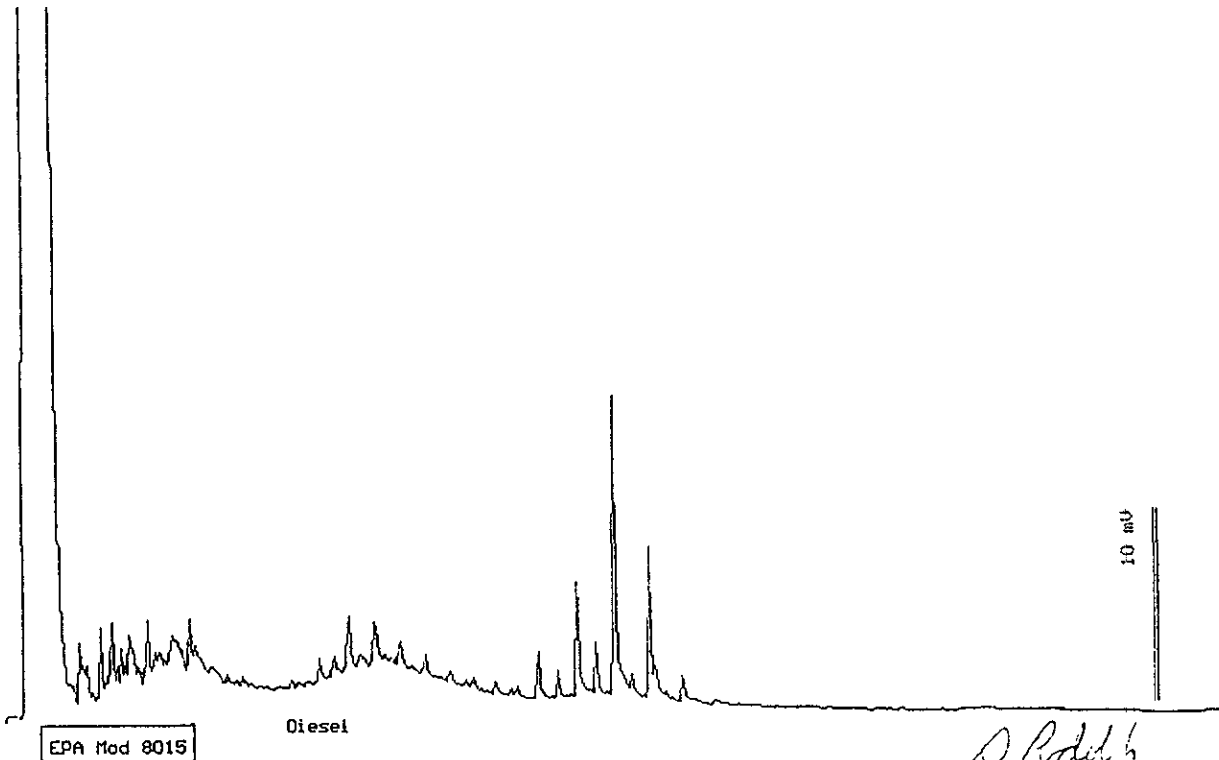
Dilution : 1:1

Matrix : Soil

QC Batch : DS960702

Run Log : 7330A

| Parameter     | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|---------------|-------------------------------|--|
| TPH as Diesel | (1.0)                         | 4.2                                    |



Date: 07-02-96 Time: 15:35:20  
Column : 0.53mm ID X 15m Rtx-1 (Restek Corporation)

*Stewart Podolsky*  
Stewart Podolsky  
Senior Chemist

Sample: S-Tank 3

From : Beacon 546 (Proj. # D095-967)

Sampled : 06/28/96

Extracted: 07/01/96

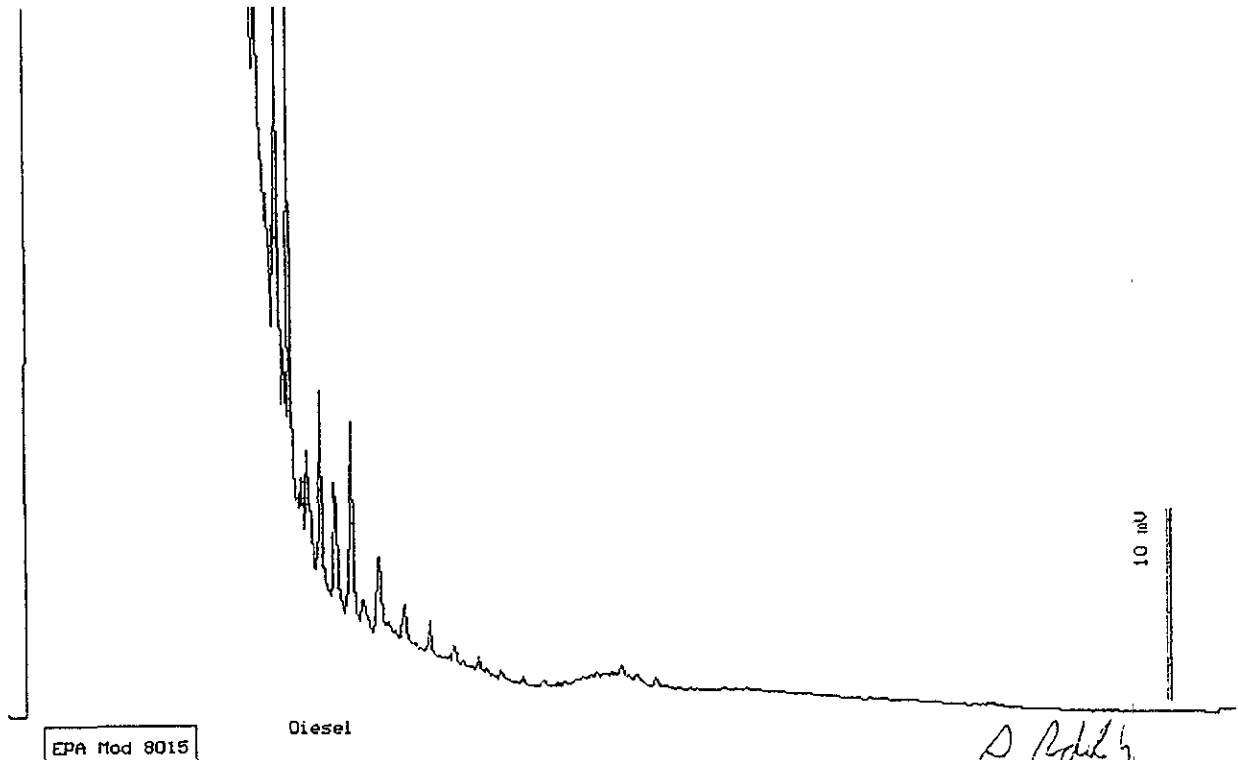
Dilution : 1:30

Matrix : Soil

QC Batch : DS960702

Run Log : 7330B

| Parameter     | (MRL) <small>mg/kg</small> | Measured Value <small>mg/kg</small> |
|---------------|----------------------------|-------------------------------------|
| TPH as Diesel | (30)                       | 150                                 |



EPA Mod 8015

Diesel

*D Podolsky*

Date: 07-02-96 Time: 16:42:59  
Column : 0.53mm ID X 15m Rtx-1 (Restek Corporation)

Stewart Podolsky  
Senior Chemist

BO010053



# WEST LABORATORY

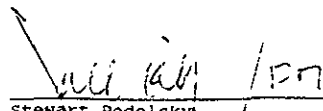
July 2, 1996  
Sample Log 15025

Oil and Grease, Hydrocarbons, Gravimetric (SM5520 E,F)  
From : Beacon 546 (Proj. # D095-967)  
Received : 06/28/96  
Matrix : Soil

--all concentrations are units of mg/kg--

| Sample   | Date Sampled | Date Analyzed | MRL   | (5520 E,F)<br>Oil and Grease |
|----------|--------------|---------------|-------|------------------------------|
| TB-1A    | 06/28/96     | 07/01/96      | (50)  | <50                          |
| TB-1B    | 06/28/96     | 07/01/96      | (50)  | <50                          |
| S-Tank 3 | 06/28/96     | 07/01/96      | (150) | 3400                         |

QC Batch: KS960701

  
Stewart Podolsky  
Senior Chemist

BO010054

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : Beacon 546 (Proj. # D095-967)


Sampled : 06/28/96

Received : 06/28/96

Matrix : Soil

| MTBE     | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|----------|-------------------------------|--|
| PL-1A    | (.050)                        | <.050                                  |
| PL-1B    | (5.0)                         | <5.0                                   |
| PL1C     | (.050)                        | <.050                                  |
| PL-1D    | (.050)                        | <.050                                  |
| PL-1E    | (5.0)                         | <5.0                                   |
| PL-1F    | (.050)                        | <.050                                  |
| PL-1G    | (.050)                        | <.050                                  |
| TB-1A    | (.050)                        | <.050                                  |
| TB-1B    | (.050)                        | <.050                                  |
| S-Tank 3 | (50)                          | <50                                    |

Approved By:



---

Joel Kiff  
Senior Chemist

Sample: PL-1A

From : Beacon 546 (Proj. # D095-967)

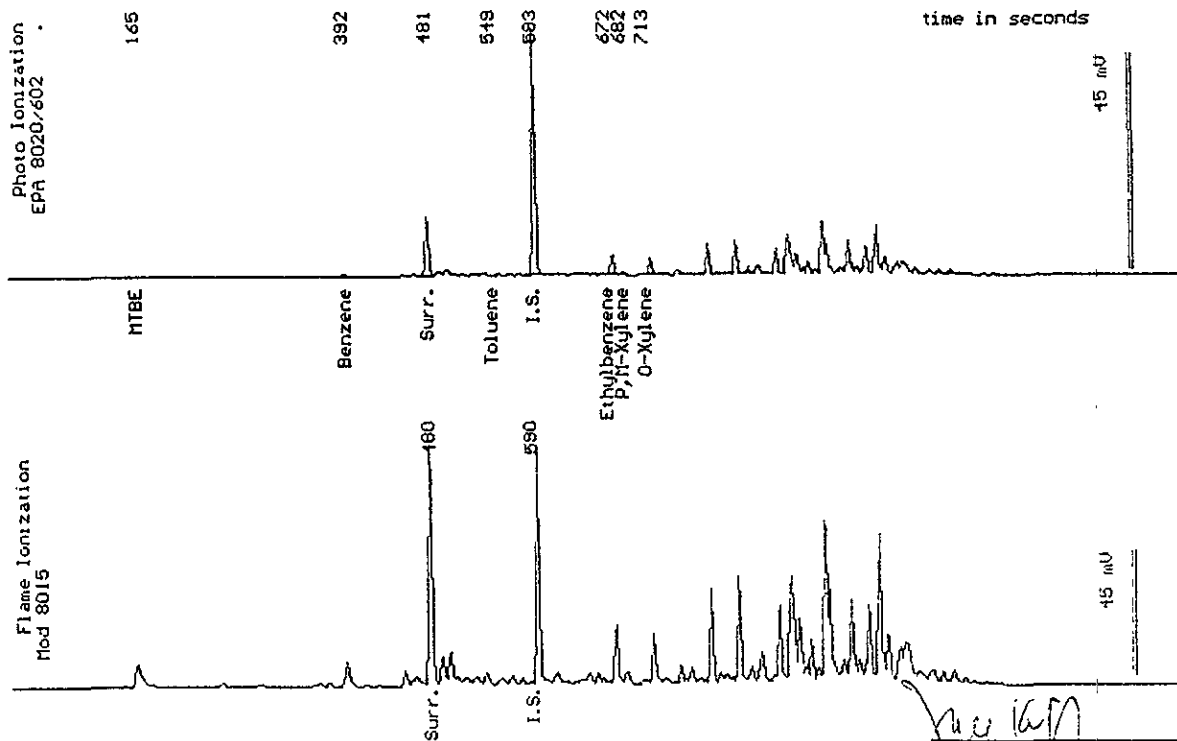
Sampled : 06/28/96

Dilution : 1:1

QC Batch : 2145V

Matrix : Soil

| Parameter          | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|--------------------|-------------------------------|--|
| Benzene            | (.0050)                       | <.0050                                 |
| Toluene            | (.0050)                       | <.0050                                 |
| Ethylbenzene       | (.0050)                       | .028                                   |
| Total Xylenes      | (.0050)                       | .026                                   |
| TPH as Gasoline    | (1.0)                         | 1.4                                    |
| Surrogate Recovery |                               | 101 %                                  |



Date Analyzed: 07-01-96  
Column : 0.53mm X 60m Restek Rtx-1301

*Joel Kiff*  
Joel Kiff  
Senior Chemist

Sample: PL-1B

From : Beacon 546 (Proj. # DO95-967)

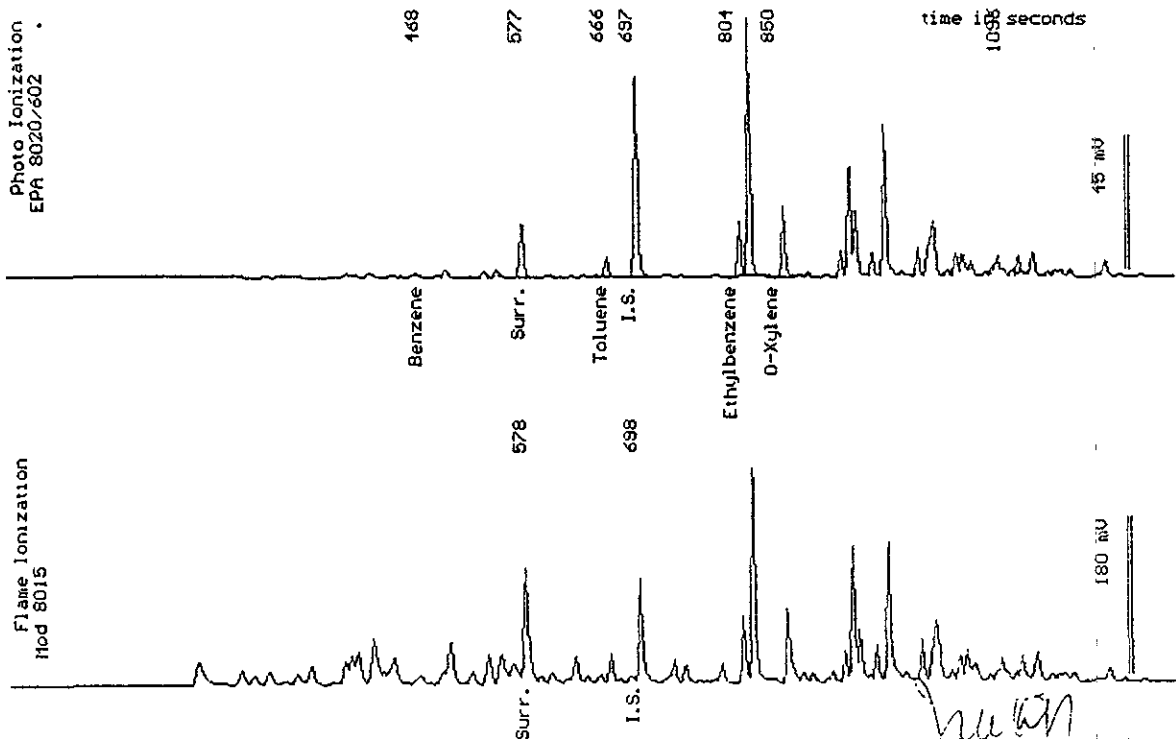
Sampled : 06/28/96

Dilution : 1:100

QC Batch : 4149A

Matrix : Soil

| Parameter          | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|--------------------|-------------------------------|--|
| Benzene            | (.50)                         | .71                                    |
| Toluene            | (.50)                         | 5.8                                    |
| Ethylbenzene       | (.50)                         | 14                                     |
| Total Xylenes      | (.50)                         | 20                                     |
| TPH as Gasoline    | (100)                         | 660                                    |
| Surrogate Recovery |                               | 112 %                                  |



Date Analyzed: 07-02-96  
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff  
 Senior Chemist

Sample: PL1C

From : Beacon 546 (Proj. # D095-967)

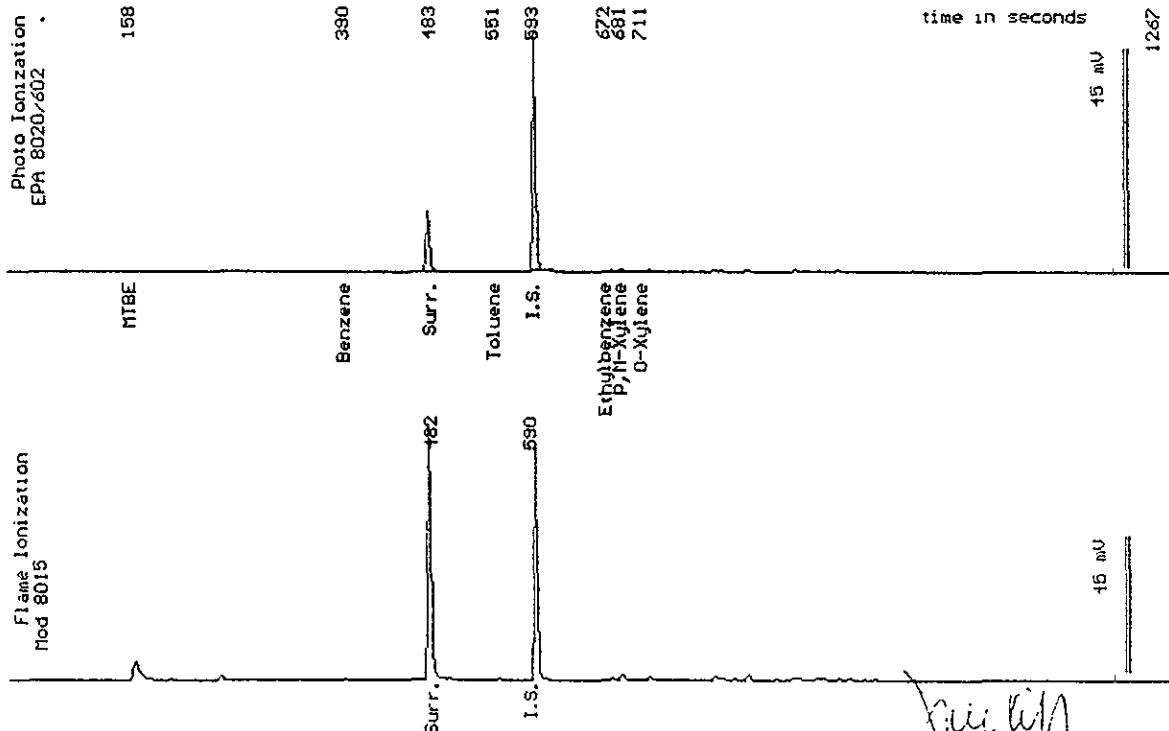
Sampled : 06/28/96

Dilution : 1:1

QC Batch : 2145V

Matrix : Soil

| Parameter          | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|--------------------|-------------------------------|--|
| Benzene            | (.0050)                       | <.0050                                 |
| Toluene            | (.0050)                       | <.0050                                 |
| Ethylbenzene       | (.0050)                       | <.0050                                 |
| Total Xylenes      | (.0050)                       | <.0050                                 |
| TPH as Gasoline    | (1.0)                         | <1.0                                   |
| Surrogate Recovery |                               | 101 %                                  |



Date Analyzed: 07-01-96  
 Column : 0.53mm X 60m Restek Rtx-1301

Jdel Kiff  
 Senior Chemist

Sample: PL-1D

From : Beacon 546 (Proj. # D095-967)

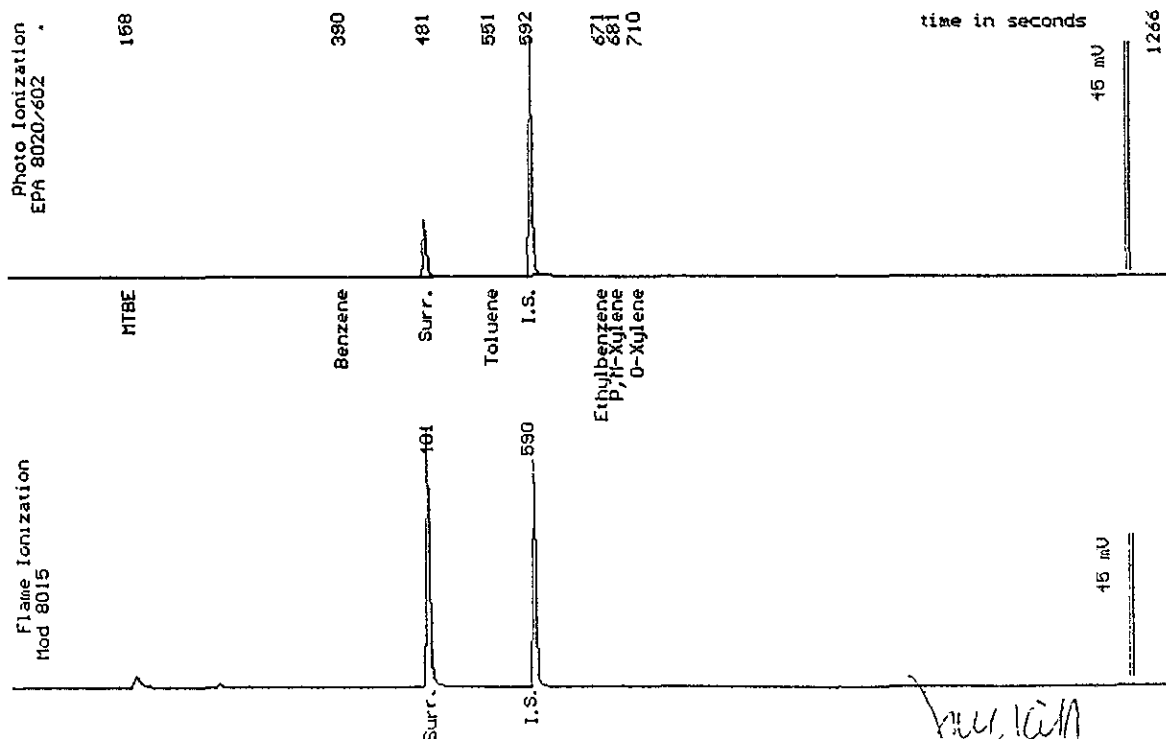
Sampled : 06/28/96

Dilution : 1:1

QC Batch : 2145V

Matrix : Soil

| Parameter          | (MRL) <small>mg/kg</small> | Measured Value <small>mg/kg</small> |
|--------------------|----------------------------|-------------------------------------|
| Benzene            | (.0050)                    | <.0050                              |
| Toluene            | (.0050)                    | <.0050                              |
| Ethylbenzene       | (.0050)                    | <.0050                              |
| Total Xylenes      | (.0050)                    | <.0050                              |
| TPH as Gasoline    | (1.0)                      | <1.0                                |
| Surrogate Recovery |                            | 100 %                               |



Date Analyzed: 07-01-96  
 Column : 0.53mm X 60m Restek Rtx-1301

*Joel Kiff*  
 Joel Kiff  
 Senior Chemist

Sample: PL-1E

From : Beacon 546 (Proj. # D095-967)

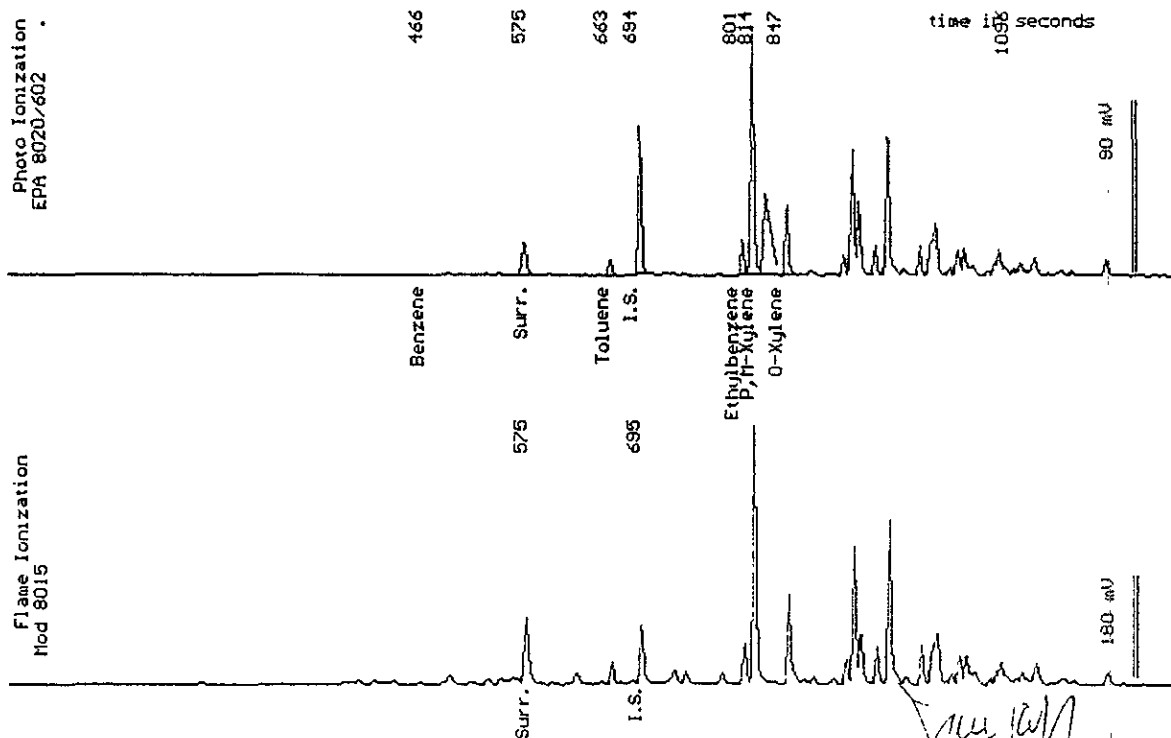
Sampled : 06/28/96

Dilution : 1:100

QC Batch : 4149A

Matrix : Soil

| Parameter          | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|--------------------|-------------------------------|--|
| Benzene            | (.50)                         | <.50                                   |
| Toluene            | (.50)                         | 19                                     |
| Ethylbenzene       | (.50)                         | 38                                     |
| Total Xylenes      | (.50)                         | 310                                    |
| TPH as Gasoline    | (100)                         | 1800                                   |
| Surrogate Recovery |                               | 107 %                                  |



Date Analyzed: 07-02-96  
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff  
 Senior Chemist

Sample: PL-1F

From : Beacon 546 (Proj. # D095-967)

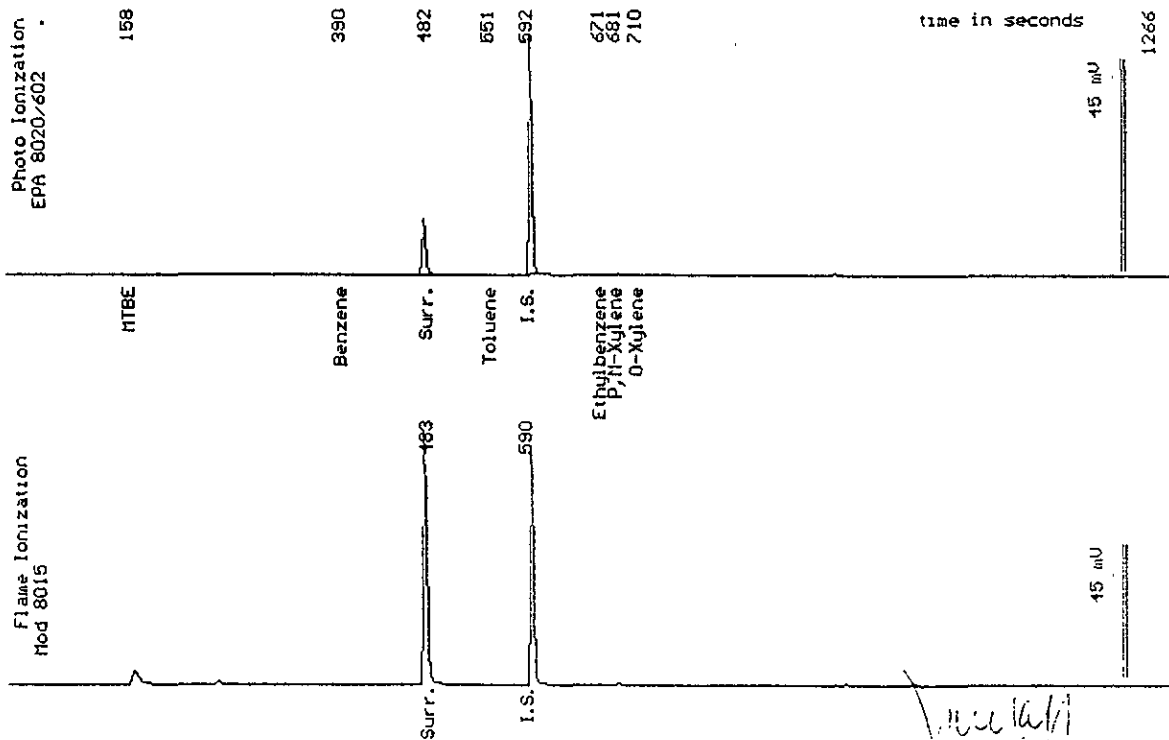
Sampled : 06/28/96

Dilution : 1:1

QC Batch : 2145V

Matrix : Soil

| Parameter          | (MRL) <small>mg/kg</small> | Measured Value <small>mg/kg</small> |
|--------------------|----------------------------|-------------------------------------|
| Benzene            | (.0050)                    | <.0050                              |
| Toluene            | (.0050)                    | <.0050                              |
| Ethylbenzene       | (.0050)                    | <.0050                              |
| Total Xylenes      | (.0050)                    | <.0050                              |
| TPH as Gasoline    | (1.0)                      | <1.0                                |
| Surrogate Recovery |                            | 98 %                                |



Date Analyzed: 07-01-96  
 Column : 0.53mm X 60m Restek Rtx-1301

*Joel Kiff*  
 Joel Kiff  
 Senior Chemist



Sample: PL-1G

From : Beacon 546 (Proj. # D095-967)

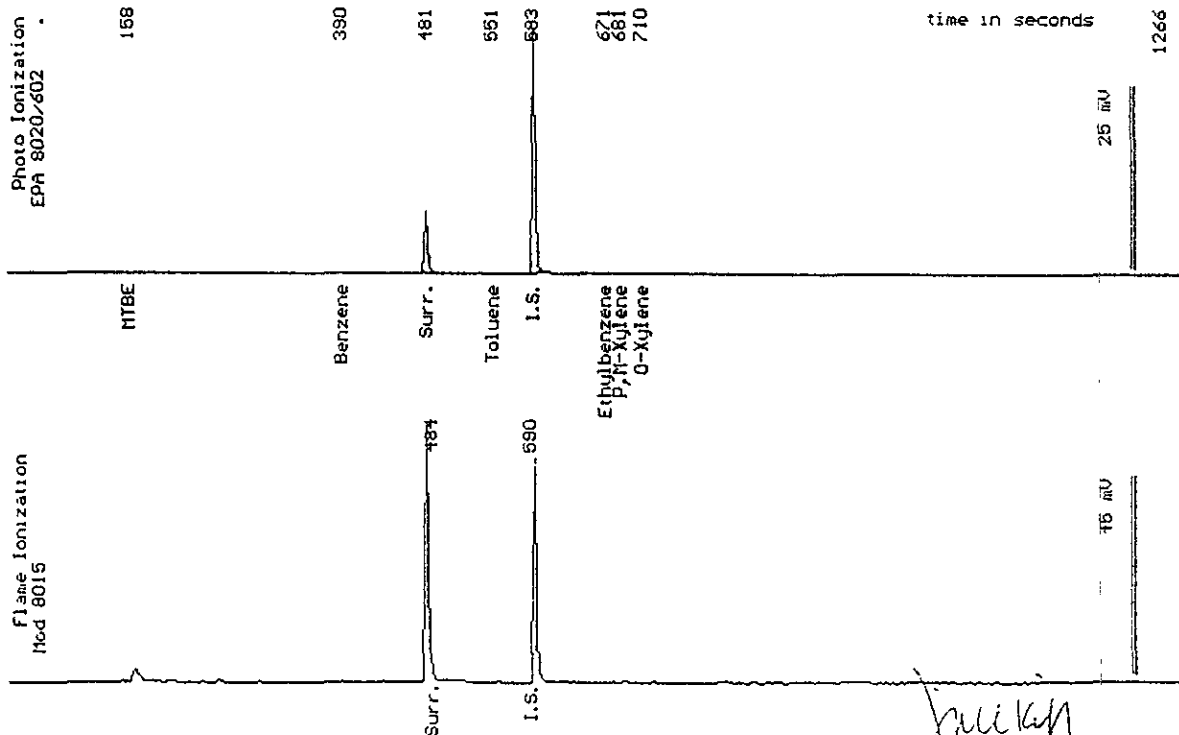
Sampled : 06/28/96

Dilution : 1:1

QC Batch : 2145V

Matrix : Soil

| Parameter          | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|--------------------|-------------------------------|--|
| Benzene            | (.0050)                       | <.0050                                 |
| Toluene            | (.0050)                       | <.0050                                 |
| Ethylbenzene       | (.0050)                       | <.0050                                 |
| Total Xylenes      | (.0050)                       | <.0050                                 |
| TPH as Gasoline    | (1.0)                         | <1.0                                   |
| Surrogate Recovery |                               | 93 %                                   |



Date Analyzed: 07-01-96  
 Column : 0.53mm X 60m Restek Rtx-1301

*Joel Kiff*  
 Joel Kiff  
 Senior Chemist

Sample: TB-1A

From : Beacon 546 (Proj. # D095-967)

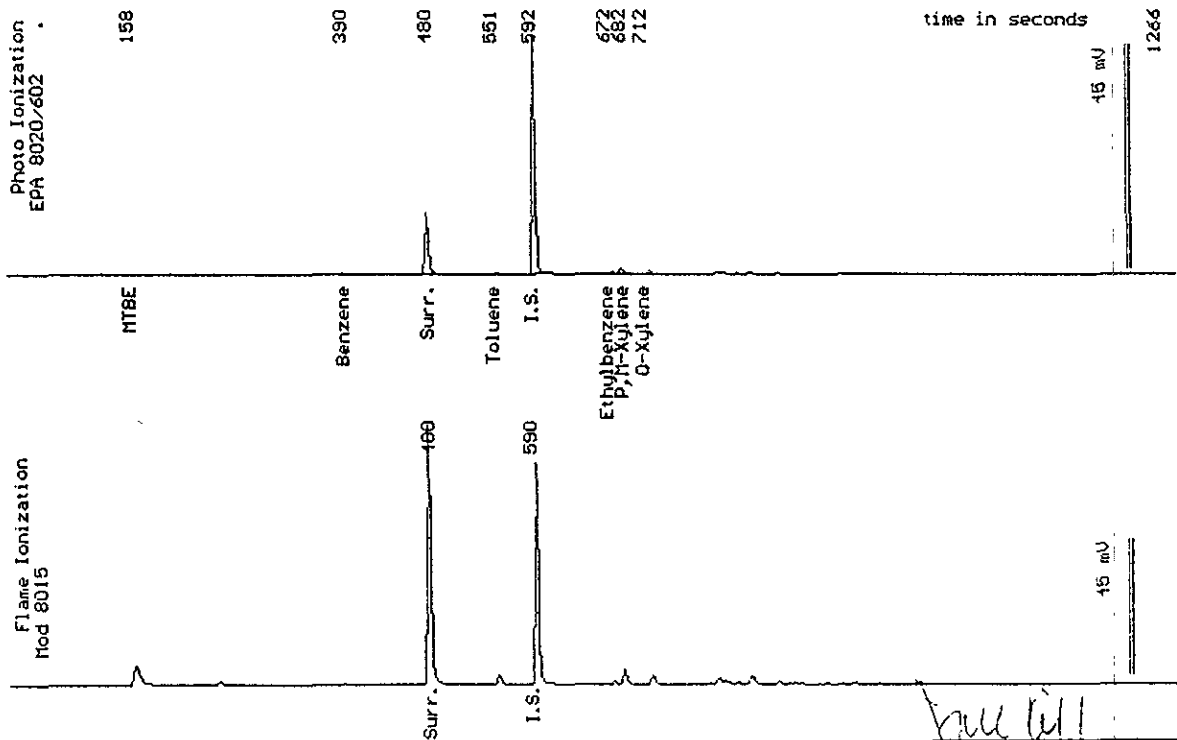
Sampled : 06/28/96

Dilution : 1:1

QC Batch : 2145V

Matrix : Soil

| Parameter          | (MRL) <small>mg/kg</small> | Measured Value <small>mg/kg</small> |
|--------------------|----------------------------|-------------------------------------|
| Benzene            | (.0050)                    | <.0050                              |
| Toluene            | (.0050)                    | <.0050                              |
| Ethylbenzene       | (.0050)                    | <.0050                              |
| Total Xylenes      | (.0050)                    | .0070                               |
| TPH as Gasoline    | (1.0)                      | <1.0                                |
| Surrogate Recovery |                            | 99 %                                |



Date Analyzed: 07-01-96  
 Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff  
 Senior Chemist

Sample: TB-1B

From : Beacon 546 (Proj. # D095-967)

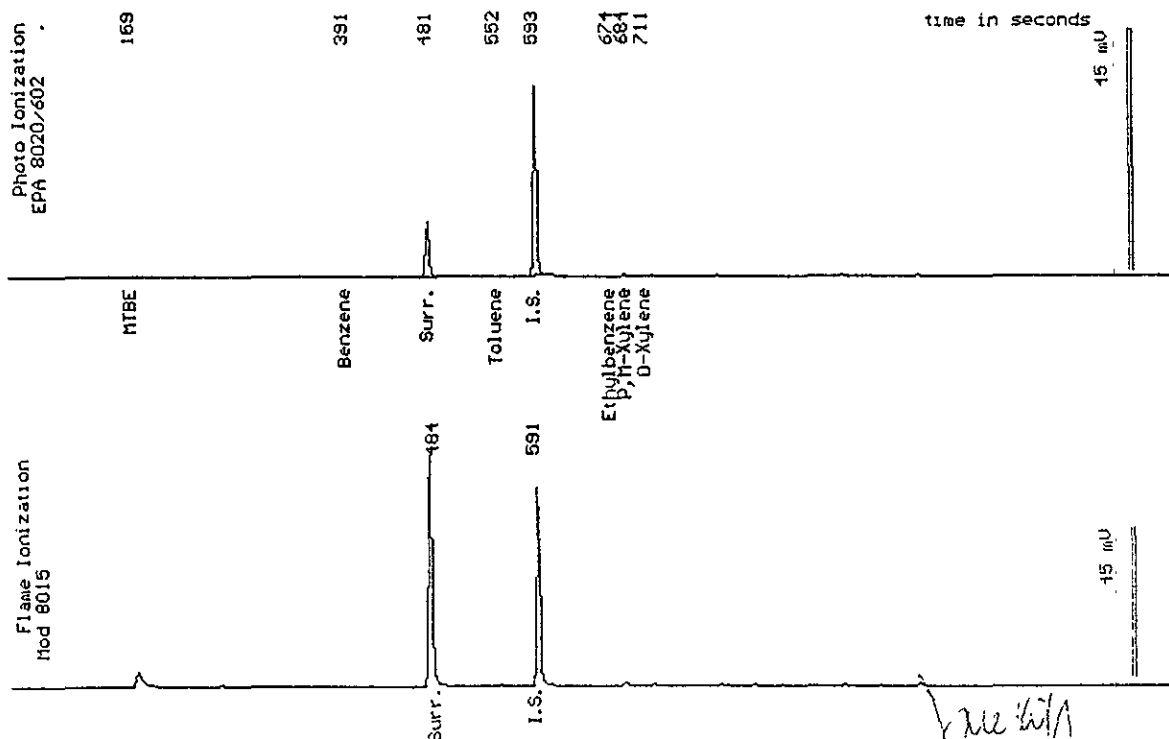
Sampled : 06/28/96

Dilution : 1:1

QC Batch : 2145V

Matrix : Soil

| Parameter          | (MRL) <small>µg/kg</small> | Measured Value <small>µg/kg</small> |
|--------------------|----------------------------|-------------------------------------|
| Benzene            | (.0050)                    | <.0050                              |
| Toluene            | (.0050)                    | <.0050                              |
| Ethylbenzene       | (.0050)                    | <.0050                              |
| Total Xylenes      | (.0050)                    | <.0050                              |
| TPH as Gasoline    | (1.0)                      | <1.0                                |
| Surrogate Recovery |                            | 99 %                                |



Date Analyzed: 07-01-96  
 Column : 0.53mm X 60m Restek Rtx-1301

*Jdel Kiff*  
 Jdel Kiff  
 Senior Chemist

Sample: S-Tank 3

From : Beacon 546 (Proj. # D095-967)

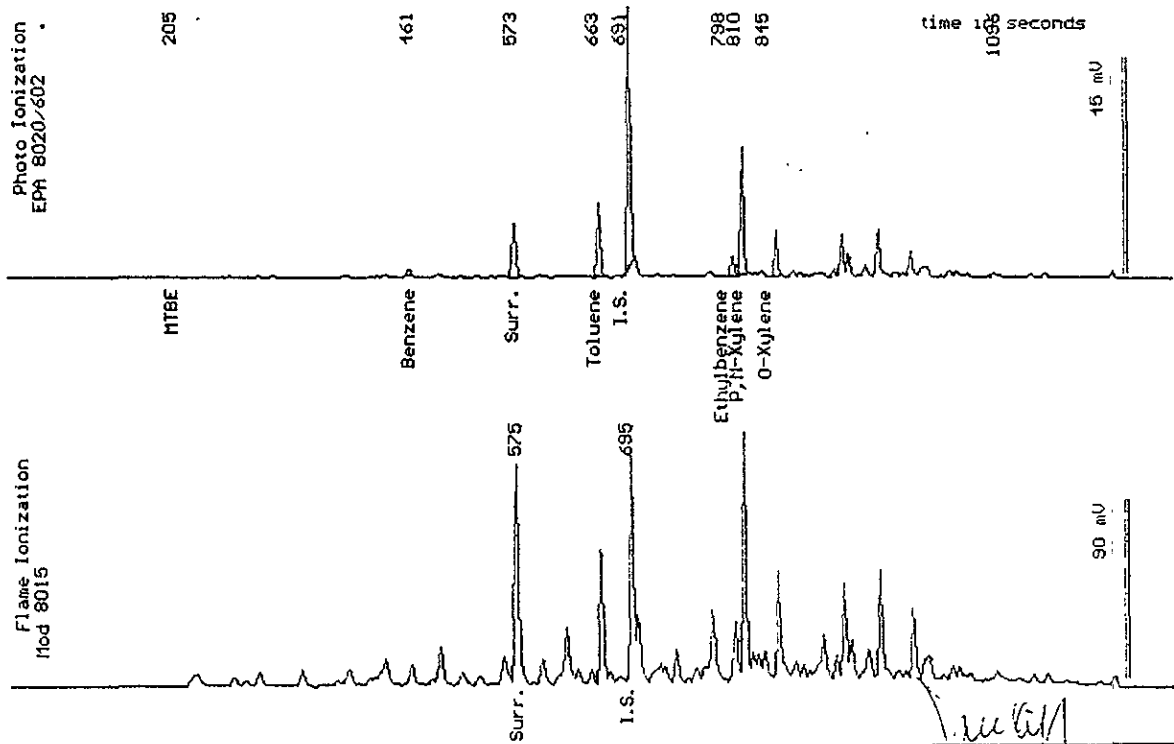
Sampled : 06/28/96

Dilution : 1:1000

QC Batch : 4148XX

Matrix : Soil

| Parameter          | (MRL) <small>mg/kg</small> | Measured Value <small>mg/kg</small> |
|--------------------|----------------------------|-------------------------------------|
| Benzene            | (5.0)                      | 9.8                                 |
| Toluene            | (5.0)                      | 93                                  |
| Ethylbenzene       | (5.0)                      | 32                                  |
| Total Xylenes      | (5.0)                      | 190                                 |
| TPH as Gasoline    | (1000)                     | 1600                                |
| Surrogate Recovery |                            | 111 %                               |



Date Analyzed: 07-01-96  
Column : 0.53mm ID X 60m Restek Rtx-1701

Jdel Kiff  
Senior Chemist



**Ultramar Inc.**  
CHAIN OF CUSTODY REPORT

**BEACON**

15025

| Beacon Station No.<br><b>546</b>                                     |         | Sampler (Print Name)<br><b>Chris Hill</b> |                     |  | ANALYSES       |                |              |  |  |  |  |                        | Date<br><b>6-28-96</b> | Form No.<br><b>1</b> of <b>1</b> |
|--|---------|---|---------------------|--|----------------|----------------|--------------|--|--|--|--|------------------------|------------------------|----------------------------------|
| Project No.<br><b>D095-967</b>                                       |         | Sampler (Signature)<br><i>[Signature]</i> |                     |  |                |                |              |  |  |  |  |                        | No. of Containers      |                                  |
| Project Location<br><b>Hayward</b>                                   |         | Affiliation<br><b>Delta</b>               |                     |  | BTEX           | TPH (gasoline) | TPH (diesel) |  |  |  |  |                        |                        |                                  |
| Sample No./Identification  | Date    | Time                                      | Lab No.             | BTEX   | TPH (gasoline) | TPH (diesel)   |              |  |  |  |  |                        |                        |                                  |
| PL-1A  | 6-28-96 | 1705                                      | 15025-01            | X  | X              |                |              |  |  |  |  |                        | 1                      |                                  |
| PL-1B  | }       | 1713                                      | -02                 | X  | X              |                |              |  |  |  |  |                        | 1                      |                                  |
| PL-1C  |         | 1720                                      | -03                 | X  | X              |                |              |  |  |  |  |                        | 1                      |                                  |
| PL-1D  |         | 1733                                      | -04                 | X  | X              |                |              |  |  |  |  |                        | 1                      |                                  |
| PL-1E  |         | 1727                                      | -05                 | X  | X              |                |              |  |  |  |  |                        | 1                      |                                  |
| PL-1F  |         | 1741                                      | -06                 | X  | X              |                |              |  |  |  |  |                        | 1                      |                                  |
| PL-1G  | 6-28-96 | 1746                                      | -07                 | X  | X              |                |              |  |  |  |  |                        | 1                      |                                  |
| Relinquished by: (Signature/Affiliation)<br><i>[Signature]</i> Delta |         | Date<br><b>6-28-96</b>                    | Time<br><b>2024</b> | Received by: (Signature/Affiliation)<br>_____  |                |                |              |  |  |  |  | Date                   | Time                   |                                  |
| Relinquished by: (Signature/Affiliation)<br>_____                    |         | Date                                      | Time                | Received by: (Signature/Affiliation)<br>_____  |                |                |              |  |  |  |  | Date                   | Time                   |                                  |
| Relinquished by: (Signature/Affiliation)<br>_____                    |         | Date                                      | Time                | Received by: (Signature/Affiliation)<br><i>[Signature]</i> WEST  |                |                |              |  |  |  |  | Date<br><b>6/28/96</b> | Time<br><b>2024</b>    |                                  |
| Report To: <b>OWEN K. Hralyck Delta</b>                              |         |   |                     | Bill to: <b>ULTRAMAR INC.</b><br>525 West Third Street<br>Hanford, CA 93230<br>Attention: <b>JERRY FOX</b> |                |                |              |  |  |  |  |                        |                        |                                  |

BO010066

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**Ultramar Inc.**  
CHAIN OF CUSTODY REPORT

**BEACON**

15025

|   |         |  |              |   |          |                |              |              |                 |                   |  |
|---|---------|--|--------------|---|----------|----------------|--------------|--------------|-----------------|-------------------|--|
| Beacon Station No.<br>546   |         | Sampler (Print Name)<br>Chris Hill       |              |   | ANALYSES |                |              |              |                 | Date<br>6-28-96   | Form No.<br>Z of Z                                       |
| Project No.<br>D095-967   |         | Sampler (Signature)<br><i>Chris Hill</i> |              |   | BTEX     | TPH (gasoline) | TPH (diesel) | D1764402.552 | Metals          | No. of Containers | REMARKS<br>West LUB<br>72 HOUR TAT<br>7/2/96 AM IF POSS. |
| Project Location<br>Hayward   |         | Affiliation<br>Delta                     |              |   |          |                |              |              |                 |                   |  |
| Sample No./Identification   | Date    | Time                                     | Lab No.      |   |          |                |              |              |                 |                   |  |
| TB-1A   | 6-28-96 | 1806                                     | 15025-08     | X   | X        | X              | X            | X            | 1               |                   |  |
| TB-1B   | 6-28-96 | 1817                                     | -09          | X   | X        | X              | X            | X            | 1               |                   |  |
| S-TANK 3  | 6-28-96 | 1844                                     | -10          | X   | X        | X              | X            | X            | 2               |                   |  |
| Relinquished by: (Signature/Affiliation)<br><i>Chris Hill Delta</i> |         | Date<br>6-28-96                          | Time<br>2028 | Received by: (Signature/Affiliation)<br><i>[Signature]</i>  |          |                |              |              | Date            | Time              |  |
| Relinquished by: (Signature/Affiliation)<br><i>[Signature]</i>      |         | Date                                     | Time         | Received by: (Signature/Affiliation)<br><i>[Signature]</i>  |          |                |              |              | Date            | Time              |  |
| Relinquished by: (Signature/Affiliation)<br><i>[Signature]</i>      |         | Date                                     | Time         | Received by: (Signature/Affiliation)<br><i>[Signature] WEST</i>                                     |          |                |              |              | Date<br>6/28/96 | Time<br>2028      |  |
| Report To: <i>DREW K. Hurdle</i>                                    |         |  |              | Bill to: ULTRAMAR INC.<br>525 West Third Street<br>Hanford, CA 93280<br>Attention: <i>Jenny Fox</i> |          |                |              |              |                 |                   |  |

BO010067

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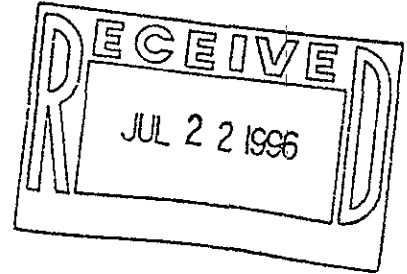


**ENCLOSURE C**

**Copies of Analytical Reports from Soil Samples  
Collected on July 11, 1996**

BO010069





Owen Kittredge  
Delta Environmental Consultants  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Subject : 3 soil samples  
Project Name : Beacon 546  
Project Number : DO95-967

Location : Hayward

Dear Mr. Kittredge,

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

WEST Laboratory is certified by the State of California (# 1346). If you have any questions regarding procedures or results, please call me at 916-753-9500.

Sincerely,

  
Joel L. Kiff

July 16, 1996  
Sample Log 15111-01


Sample : LB-1  
From : Beacon 546 (Project # D093-967)  
Matrix : Soil  
Report As : wet weight

Date Sampled : 07/11/96  
Date Received : 07/12/96  
Units : (mg/kg)

Metals Analyses by ICP by SW-846  
5 LUFT "Waste Oil" Metals

| Analyte       | Result | MRL  | EPA Method | Date Digested | Date Analyzed |
|---------------|--------|------|------------|---------------|---------------|
| Cadmium (Cd)  | <0.80  | 0.80 | 6010       | 07/15/96      | 07/16/96      |
| Chromium (Cr) | 100    | 0.70 | 6010       | 07/15/96      | 07/16/96      |
| Lead (Pb)     | 19     | 10   | 6010       | 07/15/96      | 07/16/96      |
| Nickel (Ni)   | 140    | 1.5  | 6010       | 07/15/96      | 07/16/96      |
| Zinc (Zn)     | 80     | 1.0  | 6010       | 07/15/96      | 07/16/96      |

MRL = Method Reporting Limit



Michelle L. Anderson  
Inorganics Supervisor

BO010071

July 16, 1996  
Sample Log 15111-02

Sample : OS-1  
From : Beacon 546 (Project # D093-967)  
Matrix : Soil  
Report As : wet weight

Date Sampled : 07/11/96  
Date Received : 07/12/96  
Units : (mg/kg)

Metals Analyses by ICP by SW-846  
5 LUFT "Waste Oil" Metals

| Analyte       | Result | MRL  | EPA Method | Date Digested | Date Analyzed |
|---------------|--------|------|------------|---------------|---------------|
| Cadmium (Cd)  | <0.80  | 0.80 | 6010       | 07/15/96      | 07/16/96      |
| Chromium (Cr) | 85     | 0.70 | 6010       | 07/15/96      | 07/16/96      |
| Lead (Pb)     | 14     | 10   | 6010       | 07/15/96      | 07/16/96      |
| Nickel (Ni)   | 120    | 1.5  | 6010       | 07/15/96      | 07/16/96      |
| Zinc (Zn)     | 81     | 1.0  | 6010       | 07/15/96      | 07/16/96      |

MRL = Method Reporting Limit



Michelle L. Anderson  
Inorganics Supervisor

BO010072

July 16, 1996  
Sample Log 15111-03

Sample : LB-2  
From : Beacon 546 (Project # D093-967)  
Matrix : Soil  
Report As : wet weight

Date Sampled : 07/11/96  
Date Received : 07/12/96  
Units : (mg/kg)

Metals Analyses by ICP by SW-846  
5 LUFT "Waste Oil" Metals

| Analyte       | Result | MRL  | EPA Method | Date Digested | Date Analyzed |
|---------------|--------|------|------------|---------------|---------------|
| Cadmium (Cd)  | <0.40  | 0.40 | 6010       | 07/15/96      | 07/16/96      |
| Chromium (Cr) | 100    | 0.70 | 6010       | 07/15/96      | 07/16/96      |
| Lead (Pb)     | 17     | 10   | 6010       | 07/15/96      | 07/16/96      |
| Nickel (Ni)   | 140    | 1.5  | 6010       | 07/15/96      | 07/16/96      |
| Zinc (Zn)     | 82     | 1.0  | 6010       | 07/15/96      | 07/16/96      |

MRL = Method Reporting Limit



Michelle L. Anderson  
Inorganics Supervisor

July 16, 1996

## Metals QC Report for Sample Log 15111

From : Beacon 546 (Project # D093-967)  
Matrix : Soil

Units : (mg/kg)

### Method Blank

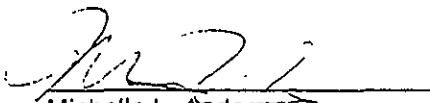
| Analyte       | Result | MRL  | EPA Method | Date Digested | Date Analyzed |
|---------------|--------|------|------------|---------------|---------------|
| Cadmium (Cd)  | <0.40  | 0.40 | 6010       | 07/15/96      | 07/16/96      |
| Chromium (Cr) | <0.70  | 0.70 | 6010       | 07/15/96      | 07/16/96      |
| Lead (Pb)     | <10    | 10   | 6010       | 07/15/96      | 07/16/96      |
| Nickel (Ni)   | <1.5   | 1.5  | 6010       | 07/15/96      | 07/16/96      |
| Zinc (Zn)     | <1.0   | 1.0  | 6010       | 07/15/96      | 07/16/96      |

MRL = Method Reporting Limit

### Laboratory Control Sample (LCS)

| Analyte       | % Recovery | EPA Method | Date Digested | Date Analyzed |
|---------------|------------|------------|---------------|---------------|
| Cadmium (Cd)  | 107        | 6010       | 07/15/96      | 07/16/96      |
| Chromium (Cr) | 103        | 6010       | 07/15/96      | 07/16/96      |
| Lead (Pb)     | 106        | 6010       | 07/15/96      | 07/16/96      |
| Nickel (Ni)   | 107        | 6010       | 07/15/96      | 07/16/96      |
| Zinc (Zn)     | 108        | 6010       | 07/15/96      | 07/16/96      |

LCS Limits are 85 - 115%.

  
Michelle L. Anderson  
Inorganics Supervisor

B0010074

July 16, 1996

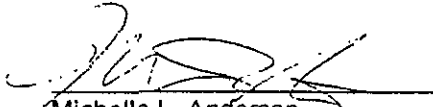
## Metals QC Report for Sample Log 15111 (cont'd)

From : Beacon 546 (Project # D093-967)  
Sample Spiked for MS/MSD : 15111-01

### Matrix Spikes

| Analyte       | MS<br>% Recov | MSD<br>% Recov | RPD | EPA Method | Date<br>Digested | Date<br>Analyzed |
|---------------|---------------|----------------|-----|------------|------------------|------------------|
| Cadmium (Cd)  | 104           | 103            | 1   | 6010       | 07/15/96         | 07/16/96         |
| Chromium (Cr) | 76            | 84             | 10  | 6010       | 07/15/96         | 07/16/96         |
| Lead (Pb)     | 92            | 95             | 3   | 6010       | 07/15/96         | 07/16/96         |
| Nickel (Ni)   | 101           | 92             | 9   | 6010       | 07/15/96         | 07/16/96         |
| Zinc (Zn)     | 104           | 100            | 4   | 6010       | 07/15/96         | 07/16/96         |

MS = Matrix Spike      MSD = Matrix Spike Duplicate      RPD = Relative Percent Difference  
Spike Recovery Limits for Matrix Spikes are 75 - 125%. RPD Limits are  $\pm 20\%$ .

  
Michelle L. Anderson  
Inorganics Supervisor

BO010075

**Volatile Halocarbons**

Sample Name : LB-1

Project Name : Beacon 546  
Project Number : DO95-967  
Sample Date : 07/11/96  
Date Analyzed : 07/15/96  
Analysis Method : EPA 8010Date Received : 07/12/96  
Dilution : 1:1  
Sample Matrix : Soil  
Lab Number : 15111-01

| Parameter                 | MRL    | Measured Conc. | Units      |
|---------------------------|--------|----------------|------------|
| Chloromethane             | 0.0050 | < 0.0050       | mg/Kg      |
| Vinyl Chloride            | 0.0050 | < 0.0050       | mg/Kg      |
| Bromomethane              | 0.0050 | < 0.0050       | mg/Kg      |
| Chloroethane              | 0.0050 | < 0.0050       | mg/Kg      |
| Trichlorofluoromethane    | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1-Dichloroethene        | 0.0050 | < 0.0050       | mg/Kg      |
| Dichloromethane           | 0.0050 | < 0.0050       | mg/Kg      |
| t-1,2-Dichloroethene      | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1-Dichloroethane        | 0.0050 | < 0.0050       | mg/Kg      |
| c-1,2-Dichloroethene      | 0.0050 | < 0.0050       | mg/Kg      |
| Chloroform                | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1,1-Trichloroethane     | 0.0050 | < 0.0050       | mg/Kg      |
| Carbon Tetrachloride      | 0.0050 | < 0.0050       | mg/Kg      |
| 1,2-Dichloroethane        | 0.0050 | < 0.0050       | mg/Kg      |
| Trichloroethene           | 0.0050 | < 0.0050       | mg/Kg      |
| 1,2-Dichloropropane       | 0.0050 | < 0.0050       | mg/Kg      |
| Bromodichloromethane      | 0.0050 | < 0.0050       | mg/Kg      |
| c-1,3-Dichloropropene     | 0.0050 | < 0.0050       | mg/Kg      |
| t-1,3-Dichloropropene     | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1,2-trichloroethane     | 0.0050 | < 0.0050       | mg/Kg      |
| Tetrachloroethene         | 0.0050 | < 0.0050       | mg/Kg      |
| Dibromochloromethane      | 0.0050 | < 0.0050       | mg/Kg      |
| Chlorobenzene             | 0.0050 | < 0.0050       | mg/Kg      |
| Bromoform                 | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1,2,2-Tetrachloroethane | 0.0050 | < 0.0050       | mg/Kg      |
| 1,3-Dichlorobenzene       | 0.0050 | < 0.0050       | mg/Kg      |
| 1,4-Dichlorobenzene       | 0.0050 | < 0.0050       | mg/Kg      |
| 1,2-Dichlorobenzene       | 0.0050 | < 0.0050       | mg/Kg      |
| 2-Chlorotoluene (Surr.)   |        | 74.5           | % Recovery |

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range. See higher dilution for correct value.

Approved By :

  
 Josef L. Kiff

July 15, 1996

**Volatile Halocarbons**

Sample Name : OS-1

Project Name : Beacon 546

Project Number : DO95-967

Sample Date : 07/11/96

Date Analyzed : 07/15/96

Analysis Method : EPA 8010

Date Received : 07/12/96

Dilution : 1:1

Sample Matrix : Soil

Lab Number : 15111-02

| Parameter                 | MRL    | Measured Conc. | Units      |
|---------------------------|--------|----------------|------------|
| Chloromethane             | 0.0050 | < 0.0050       | mg/Kg      |
| Vinyl Chloride            | 0.0050 | < 0.0050       | mg/Kg      |
| Bromomethane              | 0.0050 | < 0.0050       | mg/Kg      |
| Chloroethane              | 0.0050 | < 0.0050       | mg/Kg      |
| Trichlorofluoromethane    | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1-Dichloroethene        | 0.0050 | < 0.0050       | mg/Kg      |
| Dichloromethane           | 0.0050 | < 0.0050       | mg/Kg      |
| t-1,2-Dichloroethene      | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1-Dichloroethane        | 0.0050 | < 0.0050       | mg/Kg      |
| c-1,2-Dichloroethene      | 0.0050 | < 0.0050       | mg/Kg      |
| Chloroform                | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1,1-Trichloroethane     | 0.0050 | < 0.0050       | mg/Kg      |
| Carbon Tetrachloride      | 0.0050 | < 0.0050       | mg/Kg      |
| 1,2-Dichloroethane        | 0.0050 | < 0.0050       | mg/Kg      |
| Trichloroethene           | 0.0050 | < 0.0050       | mg/Kg      |
| 1,2-Dichloropropane       | 0.0050 | < 0.0050       | mg/Kg      |
| Bromodichloromethane      | 0.0050 | < 0.0050       | mg/Kg      |
| c-1,3-Dichloropropene     | 0.0050 | < 0.0050       | mg/Kg      |
| t-1,3-Dichloropropene     | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1,2-trichloroethane     | 0.0050 | < 0.0050       | mg/Kg      |
| Tetrachloroethene         | 0.0050 | < 0.0050       | mg/Kg      |
| Dibromochloromethane      | 0.0050 | < 0.0050       | mg/Kg      |
| Chlorobenzene             | 0.0050 | < 0.0050       | mg/Kg      |
| Bromoform                 | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1,2,2-Tetrachloroethane | 0.0050 | < 0.0050       | mg/Kg      |
| 1,3-Dichlorobenzene       | 0.0050 | < 0.0050       | mg/Kg      |
| 1,4-Dichlorobenzene       | 0.0050 | < 0.0050       | mg/Kg      |
| 1,2-Dichlorobenzene       | 0.0050 | < 0.0050       | mg/Kg      |
| 2-Chlorotoluene (Surr.)   |        | 88.6           | % Recovery |

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range. See higher dilution for correct value.

Approved By :

  
 Joan L. Kiff

BO010077



## Volatile Halocarbons

Sample Name : LB-2

Project Name : Beacon 546

Project Number : DO95-967

Sample Date : 07/11/96

Date Analyzed : 07/15/96

Analysis Method : EPA 8010

Date Received : 07/12/96

Dilution : 1:1

Sample Matrix : Soil

Lab Number : 15111-03


| Parameter                 | MRL    | Measured Conc. | Units      |
|---------------------------|--------|----------------|------------|
| Chloromethane             | 0.0050 | < 0.0050       | mg/Kg      |
| Vinyl Chloride            | 0.0050 | < 0.0050       | mg/Kg      |
| Bromomethane              | 0.0050 | < 0.0050       | mg/Kg      |
| Chloroethane              | 0.0050 | < 0.0050       | mg/Kg      |
| Trichlorofluoromethane    | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1-Dichloroethene        | 0.0050 | < 0.0050       | mg/Kg      |
| Dichloromethane           | 0.0050 | < 0.0050       | mg/Kg      |
| t-1,2-Dichloroethene      | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1-Dichloroethane        | 0.0050 | < 0.0050       | mg/Kg      |
| c-1,2-Dichloroethene      | 0.0050 | < 0.0050       | mg/Kg      |
| Chloroform                | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1,1-Trichloroethane     | 0.0050 | < 0.0050       | mg/Kg      |
| Carbon Tetrachloride      | 0.0050 | < 0.0050       | mg/Kg      |
| 1,2-Dichloroethane        | 0.0050 | < 0.0050       | mg/Kg      |
| Trichloroethene           | 0.0050 | < 0.0050       | mg/Kg      |
| 1,2-Dichloropropane       | 0.0050 | < 0.0050       | mg/Kg      |
| Bromodichloromethane      | 0.0050 | < 0.0050       | mg/Kg      |
| c-1,3-Dichloropropene     | 0.0050 | < 0.0050       | mg/Kg      |
| t-1,3-Dichloropropene     | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1,2-trichloroethane     | 0.0050 | < 0.0050       | mg/Kg      |
| Tetrachloroethene         | 0.0050 | < 0.0050       | mg/Kg      |
| Dibromochloromethane      | 0.0050 | < 0.0050       | mg/Kg      |
| Chlorobenzene             | 0.0050 | < 0.0050       | mg/Kg      |
| Bromoform                 | 0.0050 | < 0.0050       | mg/Kg      |
| 1,1,2,2-Tetrachloroethane | 0.0050 | < 0.0050       | mg/Kg      |
| 1,3-Dichlorobenzene       | 0.0050 | < 0.0050       | mg/Kg      |
| 1,4-Dichlorobenzene       | 0.0050 | < 0.0050       | mg/Kg      |
| 1,2-Dichlorobenzene       | 0.0050 | < 0.0050       | mg/Kg      |
| 2-Chlorotoluene (Surr.)   |        | 85.6           | % Recovery |

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range. See higher dilution for correct value.

Approved By :

  
Josef L. Kiff

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : Beacon 546 (Proj. # D095-967)

Sampled : 07/11/96

Received : 07/12/96

Matrix : Soil

| MTBE | (MRL) <small>mg/kg</small> | Measured<br>Value <small>mg/kg</small> |
|------|----------------------------|--|
| LB-1 | (.050)                     | <.050                                  |
| OS-1 | (.050)                     | <.050                                  |
| LB-2 | (.050)                     | <.050                                  |

Approved By:



Joel Kiff  
Senior Chemist

Sample: LB-1

From : Beacon 546 (Proj. # D095-967)

Sampled : 07/11/96

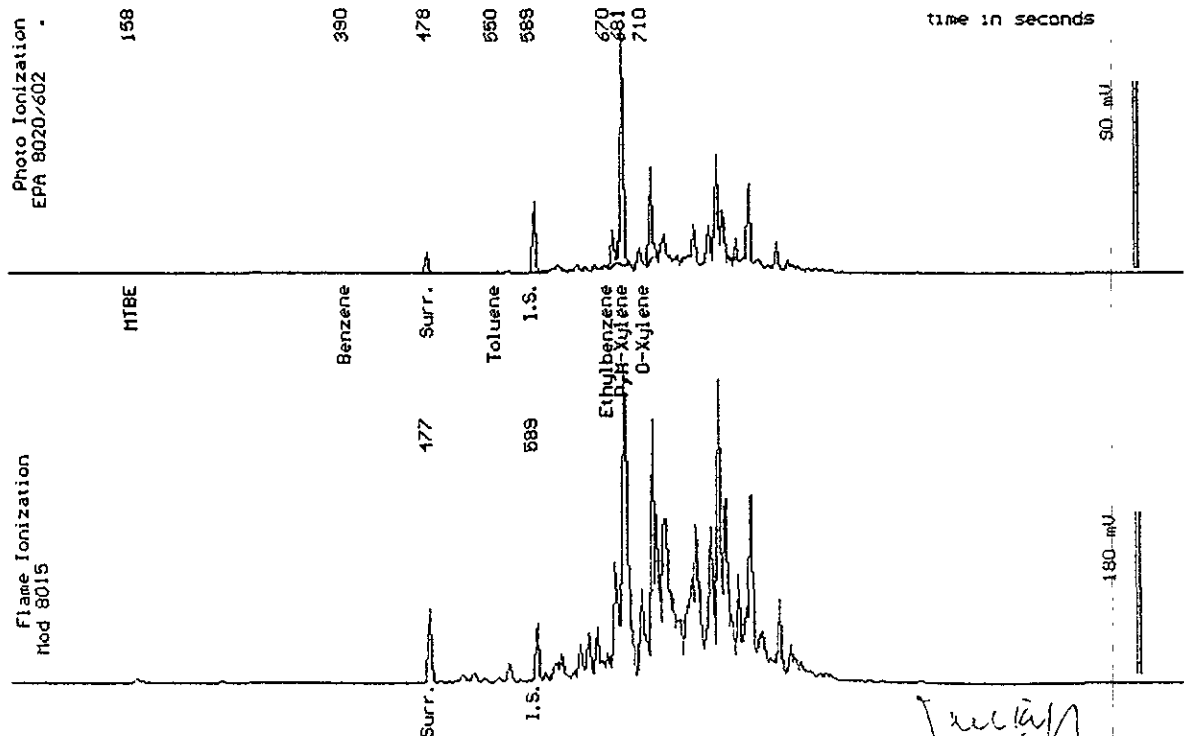
Dilution : 1:1

QC Batch : 2146K

Matrix : Soil

| Parameter          | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|--------------------|-------------------------------|--|
| Benzene            | (.0050)                       | <.0050                                 |
| Toluene            | (.0050)                       | <.0050                                 |
| Ethylbenzene       | (.0050)                       | .086                                   |
| Total Xylenes      | (.0050)                       | .70                                    |
| TPH as Gasoline    | (1.0)                         | 5.3 *                                  |
| Surrogate Recovery |                               | 104 %                                  |

\* Product is not typical gasoline.



Date Analyzed: 07-15-96  
 Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff  
 Senior Chemist

Sample: OS-1

From : Beacon 546 (Proj. # D095-967)

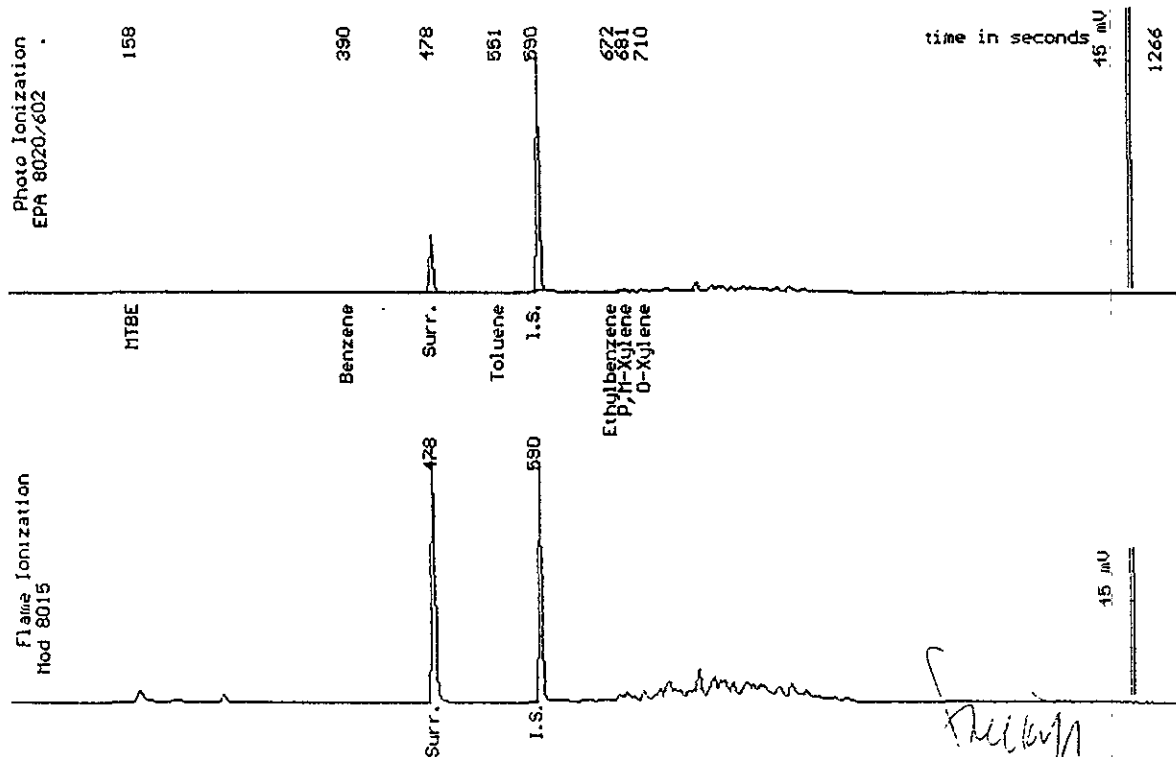
Sampled : 07/11/96

Dilution : 1:1

QC Batch : 2146K

Matrix : Soil

| Parameter          | (MRL) mg/kg | Measured Value mg/kg |
|--------------------|-------------|----------------------|
| Benzene            | (.0050)     | <.0050               |
| Toluene            | (.0050)     | <.0050               |
| Ethylbenzene       | (.0050)     | <.0050               |
| Total Xylenes      | (.0050)     | <.0050               |
| TPH as Gasoline    | (1.0)       | <1.0                 |
| Surrogate Recovery |             | 100 %                |



Date Analyzed: 07-15-96  
Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff  
Senior Chemist

Sample: LB-2

From : Beacon 546 (Proj. # D095-967)

Sampled : 07/11/96

Dilution : 1:1

QC Batch : 2146K

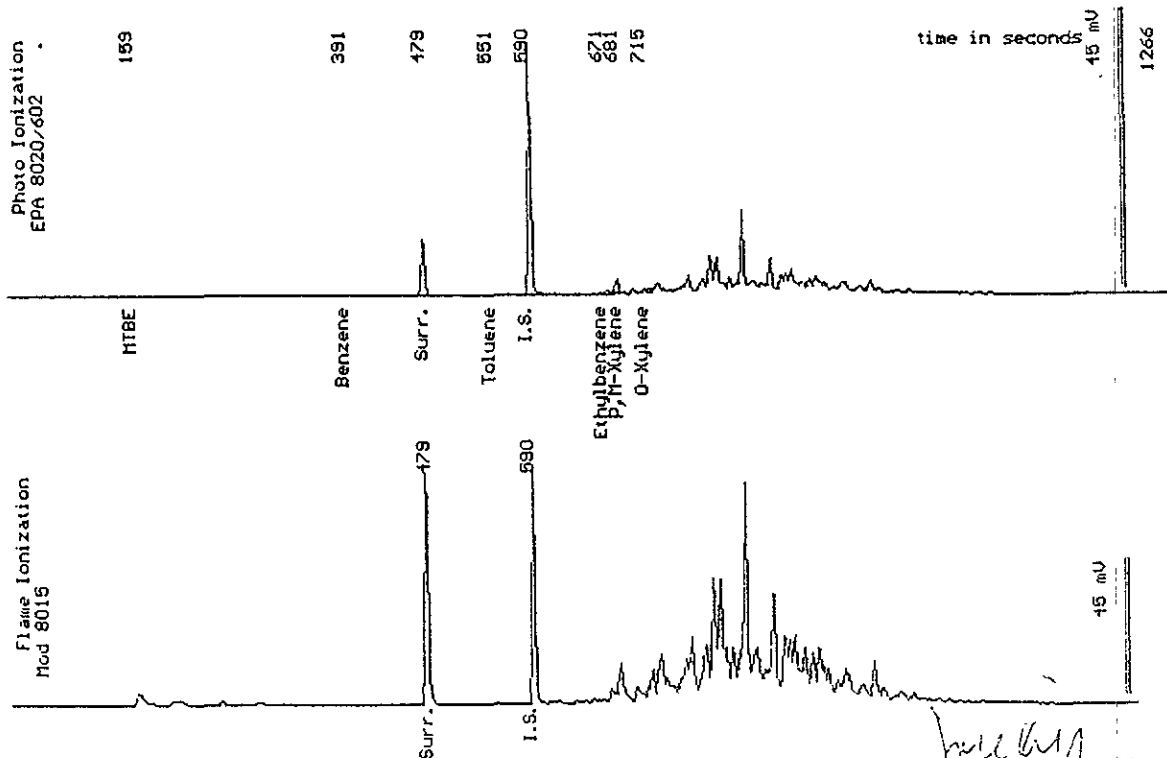
Matrix : Soil

| Parameter       | (MRL) <small>ng/kg</small> | Measured Value <small>ng/kg</small> |
|-----------------|----------------------------|-------------------------------------|
| Benzene         | (.0050)                    | <.0050                              |
| Toluene         | (.0050)                    | <.0050                              |
| Ethylbenzene    | (.0050)                    | .023                                |
| Total Xylenes   | (.0050)                    | .16                                 |
| TPH as Gasoline | (1.0)                      | 9.1 *                               |

Surrogate Recovery

96 %

\* Product is not typical gasoline.



Date Analyzed: 07-15-96  
 Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff  
 Senior Chemist

BO010082

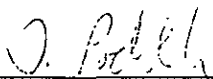
July 14, 1996  
Sample Log 15111

Oil and Grease, Hydrocarbons, Gravimetric (SM5520 E,F)  
From : Beacon 546 (Proj. # D095-967)  
Received : 07/12/96  
Matrix : Soil

--all concentrations are units of mg/kg--

| Sample | Date<br>Sampled | Date<br>Analyzed | MRL  | (5520 E,F)<br>Oil and Grease |
|--------|-----------------|------------------|------|------------------------------|
| LB-1   | 07/11/96        | 07/12/96         | (50) | 350                          |
| OS-1   | 07/11/96        | 07/12/96         | (50) | 120                          |
| LB-2   | 07/11/96        | 07/12/96         | (50) | 100                          |

QC Batch: KS960702

  
\_\_\_\_\_  
Stewart Podolsky  
Senior Chemist

BO010083

Sample: LB-1

From : Beacon 546 (Proj. # D095-967)

Sampled : 07/11/96

Extracted: 07/12/96

Dilution : 1:1

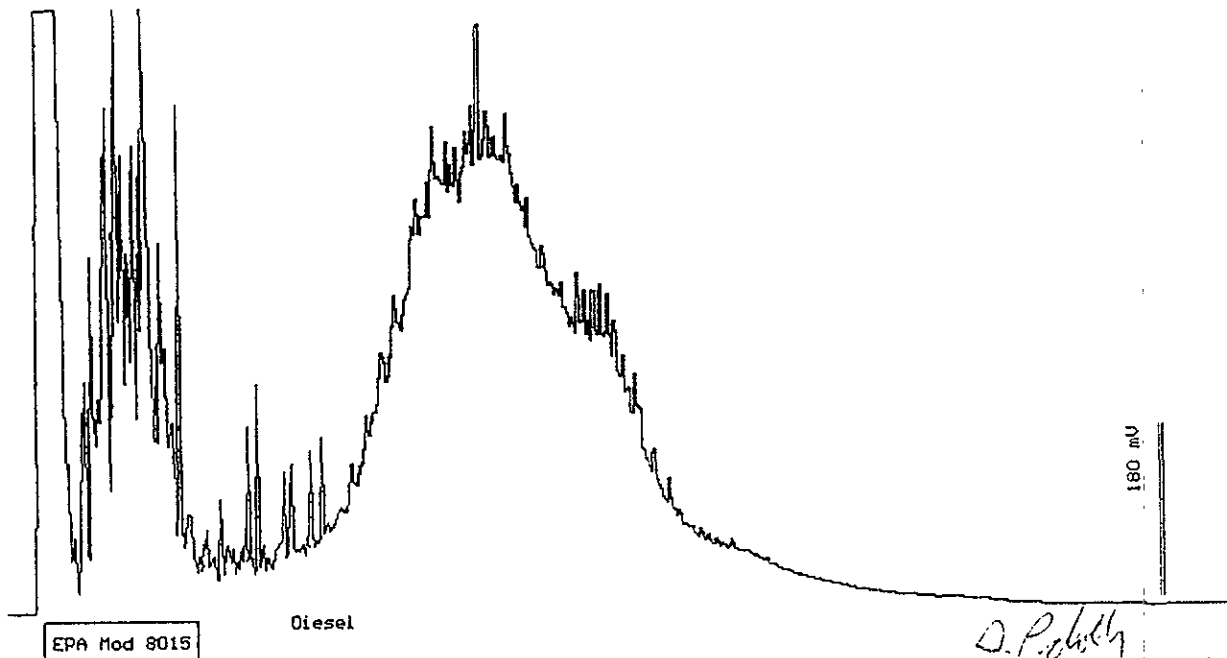
Matrix : Soil

QC Batch : DS960708

Run Log : 8347C

| Parameter     | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|---------------|-------------------------------|--|
| TPH as Diesel | (1.0)                         | 58                                     |

Contains gasoline range product similar to Stoddard Solvent.



Date: 07-13-96 Time: 08:11:02  
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

*Stewart Podolsky*  
Stewart Podolsky  
Senior Chemist

BO010084

Sample: OS-1

From : Beacon 546 (Proj. # D095-967)

Sampled : 07/11/96

Extracted: 07/12/96

Dilution : 1:1

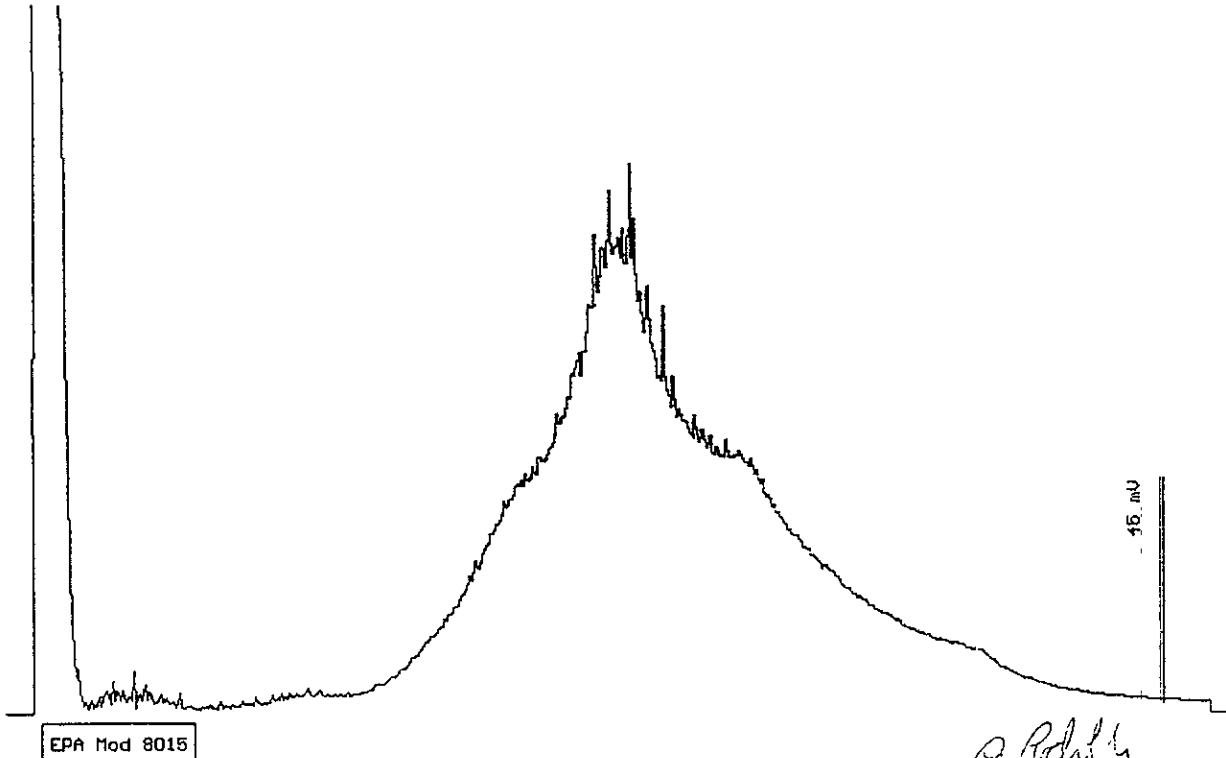
Matrix : Soil

QC Batch : DS960708

Run Log : 8347C

| Parameter     | (MRL) mg/kg | Measured Value mg/kg |
|---------------|-------------|----------------------|
| TPH as Diesel | (10)        | <10 *                |

\* Increased reporting limit due to oil range interference.



Date: 07-13-96 Time: 08:43:44  
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

*S. Podolsky*  
Stewart Podolsky  
Senior Chemist



Sample: LB-2

From : Beacon 546 (Proj. # D095-967)

Sampled : 07/11/96

Extracted: 07/12/96

Dilution : 1:1

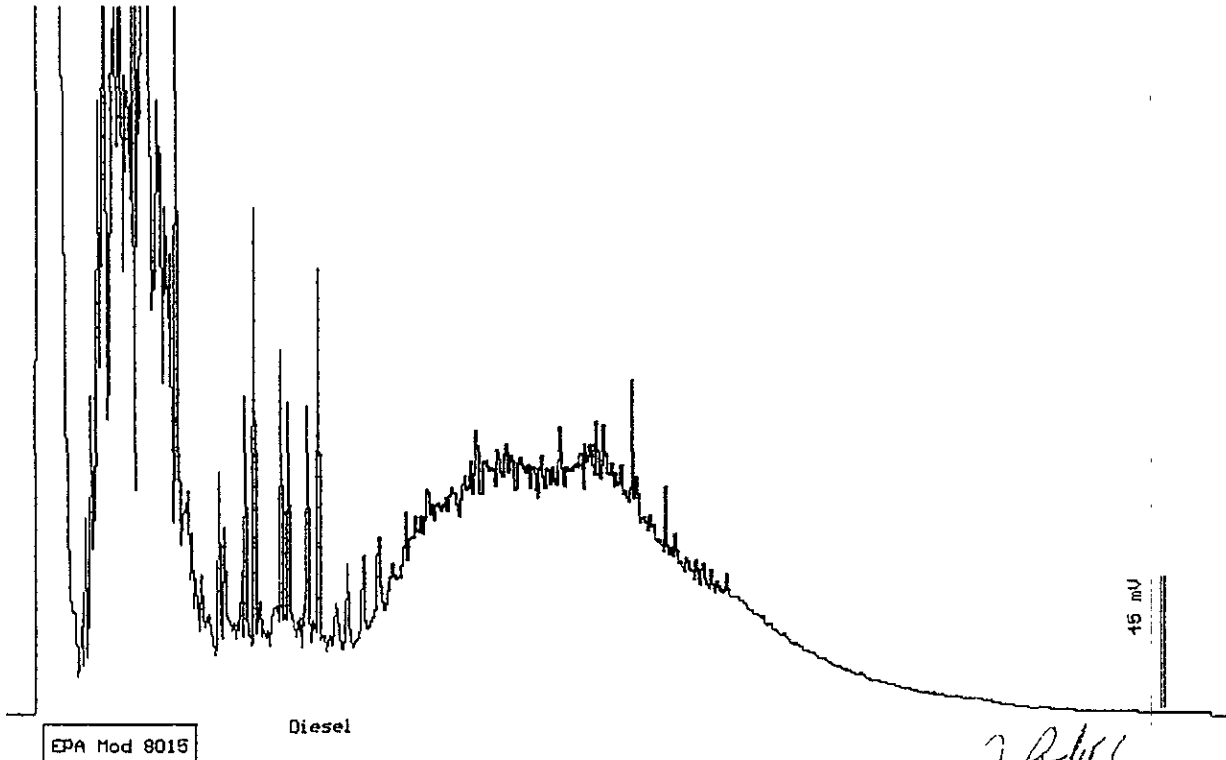
Matrix : Soil

QC Batch : DS960708

Run Log : 8347C

| Parameter     | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|---------------|-------------------------------|--|
| TPH as Diesel | (1.0)                         | 28                                     |

Contains gasoline range product similar to Stoddard Solvent.



EPA Mod 8015

Diesel

Date: 07-13-96 Time: 09:16:51  
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

*Stuart Podolsky*  
Stuart Podolsky  
Senior Chemist

BO010086



**Ultramar Inc.**  
**CHAIN OF CUSTODY REPORT**

**BEACON**

|  |  |   |                        |  |          |                |              |                     |                        |                        |                    |                    |
|--|--|---|------------------------|--|----------|----------------|--------------|---------------------|------------------------|------------------------|--------------------|--------------------|
| Beacon Station No.<br><b>546</b>                                       |  | Sampler (Print Name)<br><b>Jim PERRY</b>  |                        |  | ANALYSES |                |              |                     |                        | Date<br><b>7-11-96</b> | Form No. 1<br>of 1 |                    |
| Project No.<br><b>D095-967</b>   |  | Sampler (Signature)<br><i>Jim Perry</i>   |                        |  |          |                |              |                     |                        |                        |                    |                    |
| Project Location<br><b>HAYWARD</b>                                     |  | Affiliation<br><b>DELTA ENVIRONMENTAL</b> |                        |  | BTEX     | TPH (gasoline) | TPH (diesel) | TOTAL OIL & GREASES | BRID                   | Col. Cap. Pb. Zn. Ni   | No. of Containers  | REMARKS            |
| Sample No./Identification  |  | Date                                      | Time                   | Lab No.  |          |                |              |                     |                        |                        |                    |                    |
| LB-1   |  | 7-11-96                                   | 1405                   | 15111-01   | X        | X              | X            | X                   | X                      | X                      | 1                  | RESULTS BY 8:00 AM |
| OS-1   |  | 7-11-96                                   | 1414                   | 02   | X        | X              | X            | X                   | X                      | X                      | 1                  | 7/15/96            |
| LB-2   |  | 7-11-96                                   | 1425                   | 03   | X        | X              | X            | X                   | X                      | X                      | 1                  |                    |
|  |  |   |                        |  |          |                |              |                     |                        |                        |                    |                    |
|  |  |   |                        |  |          |                |              |                     |                        |                        |                    | RECEIVED           |
|  |  |   |                        |  |          |                |              |                     |                        |                        |                    | DATE 7/15/96 1645  |
|  |  |   |                        |  |          |                |              |                     |                        |                        |                    |                    |
|  |  |   |                        |  |          |                |              |                     |                        |                        |                    | WEST LAB           |
| Relinquished by: (Signature/Affiliation)<br><i>Jim Perry / DELTA</i>   |  | Date<br><b>7/12/96</b>                    | Time<br><b>8:30 AM</b> | Received by: (Signature/Affiliation)<br><i>[Signature] / DELTA</i>   |          |                |              |                     | Date<br><b>7/12/96</b> | Time<br><b>8:30</b>    |                    |                    |
| Relinquished by: (Signature/Affiliation)<br><i>[Signature] / DELTA</i> |  | Date<br><b>7/12/96</b>                    | Time<br><b>3:12 P</b>  | Received by: (Signature/Affiliation)<br><i>[Signature] / WEST</i>  |          |                |              |                     | Date<br><b>7/12/96</b> | Time<br><b>3:12 P</b>  |                    |                    |
| Relinquished by: (Signature/Affiliation)<br><i>[Signature] / WEST</i>  |  | Date<br><b>7/12/96</b>                    | Time<br><b>1645</b>    | Received by: (Signature/Affiliation)<br><i>[Signature]</i>   |          |                |              |                     | Date<br><b>7/12/96</b> | Time<br><b>1645</b>    |                    |                    |
| Report To: <b>OWEN KITTREDGE - DELTA</b>                               |  |   |                        | Bill to: <b>ULTRAMAR INC.</b><br>525 West Third Street<br>Hanford, CA 93230<br>Attention: <b>TERRY FOX</b> |          |                |              |                     |                        |                        |                    |                    |

BO010087

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy

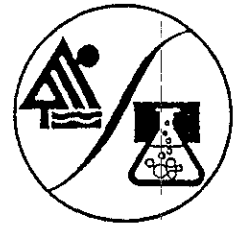
**ENCLOSURE D**

Copies of Analytical Reports from Soil Samples  
Collected on July 29, 1996

BO010088

**EXCELCHEM  
ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



**ANALYSIS REPORT**

|            |  |                |             |
|------------|--|----------------|-------------|
| Attention: | Mr. Owen Kittredge<br>Delta Environmental<br>3164 Gold Camp Drive, Suite 200<br>Rancho Cordova, CA 95670 | Date Sampled : | 07-29-96    |
|            |  | Date Received: | 07-29-96    |
|            |  | BTEX Analyzed: | 07-29,30-96 |
|            |  | TPHg Analyzed: | 07-29,30-96 |
|            |  | TPHd Analyzed: | 07-29,30-96 |
| Project #: | D095-967   | Matrix:        | Soil        |

|                  | Benzene<br><u>PPM</u> | Toluene<br><u>PPM</u> | Ethyl-<br>benzene<br><u>PPM</u> | Total<br>Xylenes<br><u>PPM</u> | TPHg<br><u>PPM</u> | TPHd<br><u>PPM</u> |
|------------------|-----------------------|-----------------------|---------------------------------|--------------------------------|--------------------|--------------------|
| Reporting Limit: | 0.005                 | 0.005                 | 0.005                           | 0.005                          | 1.0                | 10                 |

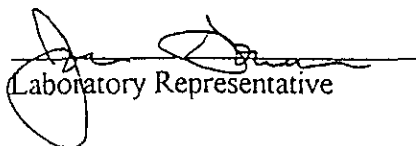
Sample:  
Laboratory Identification:

|                         |    |       |       |       |      |      |
|-------------------------|----|-------|-------|-------|------|------|
| OE-1C<br>S0796660       | ND | ND    | ND    | ND    | ND   | ND   |
| SP-1A,B,C,D<br>S0796701 | ND | ND    | ND    | 0.006 | 1.55 | 66*  |
| SP-2A,B,C,D<br>S0796702 | ND | ND    | 0.009 | 0.073 | 4.34 | 168* |
| SP-4A,B,C,D<br>S0796704 | ND | 0.009 | 0.025 | 0.169 | 2.04 | NR   |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
 ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.  
 NR = Not requested. Sample analysis not requested.  
 \* = Value is approximate because of interferences.

**ANALYTICAL PROCEDURES**

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).  
 TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.  
 TPHd--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 followed by modified EPA 8015 with direct sample injection into a GC equipped with an FID

  
Laboratory Representative

08-01-96  
Date Reported

**EXCELCHEM  
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784

**ANALYSIS REPORT**

|            |  |                |             |
|------------|--|----------------|-------------|
| Attention: | Mr. Owen Kittredge<br>Delta Environmental<br>3164 Gold Camp Drive, Suite 200<br>Rancho Cordova, CA 95670 | Date Sampled : | 07-29-96    |
|            |  | Date Received: | 07-29-96    |
|            |  | BTEX Analyzed: | 07-29,30-96 |
|            |  | TPHg Analyzed: | 07-29,30-96 |
|            |  | TPHd Analyzed: | 07-29-96    |
| Project #: | D095-967   | Matrix:        | Soil        |

|                         | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-<br/>benzene</u> | <u>Total<br/>Xylenes</u> | <u>TPHg</u> | <u>TPHd</u> |
|-------------------------|----------------|----------------|---------------------------|--------------------------|-------------|-------------|
|                         | <u>PPM</u>     | <u>PPM</u>     | <u>PPM</u>                | <u>PPM</u>               | <u>PPM</u>  | <u>PPM</u>  |
| <b>Reporting Limit:</b> | 0.025          | 0.025          | 0.025                     | 0.025                    | 5.0         | 10          |

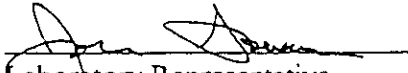
Sample:  
Laboratory Identification:

|                   |       |    |       |       |      |     |
|-------------------|-------|----|-------|-------|------|-----|
| OE-1B<br>S0796659 | ND    | ND | 0.032 | 0.273 | 16.1 | 67* |
| OE-1D<br>S0796661 | 0.041 | ND | 0.166 | 0.061 | 7.36 | NR  |
| OE-1G<br>S0796664 | ND    | ND | 0.031 | 0.253 | 18.9 | NR  |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
 ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.  
 NR = Not requested. Sample analysis not requested.  
 \* = Value is approximate because of interferences.

**ANALYTICAL PROCEDURES**

**BTEX**— Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).  
**TPHg**—Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID  
**TPHd**—Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 followed by modified EPA 8015 with direct sample injection into a GC equipped with an FID.

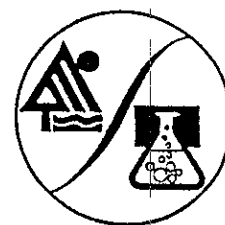
  
Laboratory Representative

08-01-96  
Date Reported

BO010090

EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-29-96  
Delta Environmental Date Received: 07-29-96  
3164 Gold Camp Drive, Suite 200 BTEX Analyzed: 07-30-96  
Rancho Cordova, CA 95670 TPHg Analyzed: 07-30-96

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 2.5        | 2.5        | 2.5               | 2.5              | 225        |

Sample:

Laboratory Identification:

|          |    |      |      |     |      |
|----------|----|------|------|-----|------|
| OE-1E    | ND | 49.3 | 96.1 | 537 | 3810 |
| S0796662 |    |      |      |     |      |

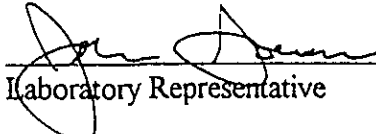
ppm = parts per million = mg/Kg = milligrams per Kilogram

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

ANALYTICAL PROCEDURES

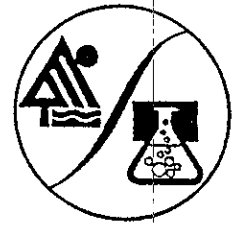
BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-01-96  
Date Reported

**EXCELCHEM  
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784

**ANALYSIS REPORT**

|            |                                 |                |          |
|------------|---------------------------------|----------------|----------|
| Attention: | Mr. Owen Kittredge              | Date Sampled : | 07-29-96 |
|            | Delta Environmental             | Date Received: | 07-29-96 |
|            | 3164 Gold Camp Drive, Suite 200 | BTEX Analyzed: | 07-30-96 |
|            | Rancho Cordova, CA 95670        | TPHg Analyzed: | 07-30-96 |

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 2.0        | 2.0        | 2.0               | 2.0              | 100        |

Sample:

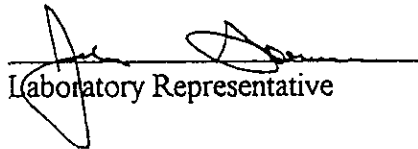
Laboratory Identification:

|          |    |      |      |     |      |
|----------|----|------|------|-----|------|
| OE-1F    | ND | 16.7 | 28.2 | 158 | 1110 |
| S0796663 |    |      |      |     |      |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

**ANALYTICAL PROCEDURES**

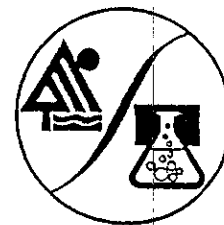
BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).  
TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-01-96  
Date Reported

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ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



**ANALYSIS REPORT**

|            |                                 |                |          |
|------------|---------------------------------|----------------|----------|
| Attention: | Mr. Owen Kittredge              | Date Sampled : | 07-29-96 |
|            | Delta Environmental             | Date Received: | 07-29-96 |
|            | 3164 Gold Camp Drive, Suite 200 | BTEX Analyzed: | 07-30-96 |
|            | Rancho Cordova, CA 95670        | TPHg Analyzed: | 07-30-96 |
| Project #: | D095-967                        | Matrix:        | Soil     |

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 1.5        | 1.5        | 1.5               | 2.6              | 150        |

Sample:  
Laboratory Identification:

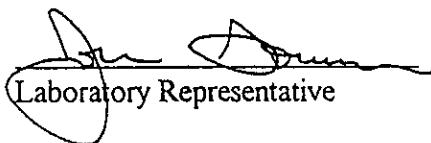
|          |      |      |      |     |      |
|----------|------|------|------|-----|------|
| OE-1A    | 1.78 | 4.42 | 72.4 | 445 | 3070 |
| S0796657 |      |      |      |     |      |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

**ANALYTICAL PROCEDURES**

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-01-96  
Date Reported



EXCELICHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-29-96  
Delta Environmental Date Received: 07-29-96  
3164 Gold Camp Drive, Suite 200 BTEX Analyzed: 07-30-96  
Rancho Cordova, CA 95670 TPHg Analyzed: 07-30-96

Project #: D095-967 Matrix: Soil

|                            | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|----------------------------|------------|------------|-------------------|------------------|------------|
|                            | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit:           | 0.040      | 0.040      | 0.040             | 0.040            | 10         |
| Sample:                    |            |            |                   |                  |            |
| Laboratory Identification: |            |            |                   |                  |            |
| SP-5A,B,C,D                | ND         | ND         | ND                | 0.076            | 11.7       |
| S0796705                   |            |            |                   |                  |            |

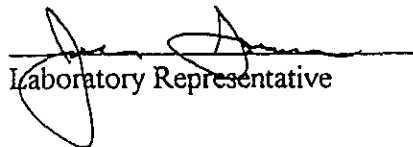
ppm = parts per million = mg/Kg = milligrams per Kilogram

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

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-01-96  
Date Reported

BO010094

EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-29-96  
Delta Environmental Date Received: 07-29-96  
3164 Gold Camp Drive, Suite 200 BTEX Analyzed: 07-30-96  
Rancho Cordova, CA 95670 TPHg Analyzed: 07-30-96

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 0.275      | 0.275      | 0.275             | 0.275            | 30         |

Sample:

Laboratory Identification:

|             |    |       |      |      |     |
|-------------|----|-------|------|------|-----|
| SP-3A,B,C,D | ND | 0.525 | 3.78 | 22.6 | 236 |
| S0796703    |    |       |      |      |     |

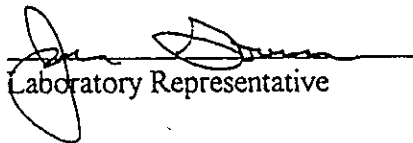
ppm = parts per million = mg/Kg = milligrams per Kilogram

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

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

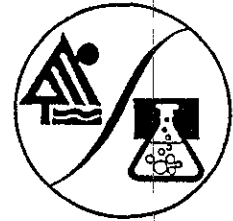
TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-01-96  
Date Reported

EXCELICHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-29-96  
Delta Environmental Date Received: 07-29-96  
3164 Gold Camp Drive, Suite 200 TOG Analyzed: 07-29,30-96  
Rancho Cordova, CA 95670

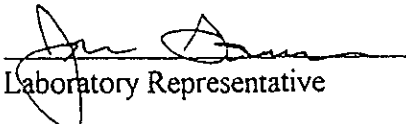
Project #: D095-967 Matrix: Soil

|                            | TOG<br>PPM |
|----------------------------|------------|
| Reporting Limit:           | 50         |
| Sample:                    |            |
| Laboratory Identification: |            |
| OE-1B<br>S0796659          | 128        |
| OE-1C<br>S0796660          | ND         |
| OE-1G<br>S0796664          | 104        |
| SP-1A,B,C,D<br>S0796701    | 314        |
| SP-2A,B,C,D<br>S0796702    | 380        |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

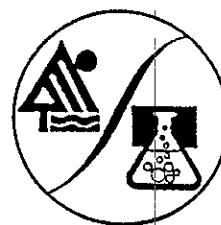
TOG-- Total oil and grease is measured by Standard Method 5520B. 18th Edition.

  
Laboratory Representative

08-01-96  
Date Reported

EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



QA/QC REPORT

Attention: Mr. Owen Kittredge Date Analyzed: 07-29-96  
Delta Environmental Matrix: Soil  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Project #: D095-967

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes |
|------------------|------------|------------|-------------------|------------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       |
| Reporting Limit: | 0.005      | 0.005      | 0.005             | 0.005            |

QA/QC PARAMETER

|              |    |    |    |    |
|--------------|----|----|----|----|
| Matrix Blank | ND | ND | ND | ND |
|--------------|----|----|----|----|

PERCENT RECOVERIES

|                                       |      |      |      |      |
|---------------------------------------|------|------|------|------|
| Laboratory Control Spike              | 116% | 117% | 117% | 119% |
| Laboratory Control Spike<br>Duplicate | 112% | 113% | 113% | 115% |

ppm = parts per million = mg/Kg = milligram per kilogram

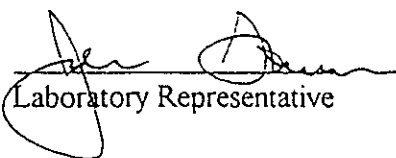
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

All surrogate recoveries were within 30% of target values.

Spikes & Spike Duplicates were each spiked with 250 ng BTEX standard.

ANALYTICAL PROCEDURES

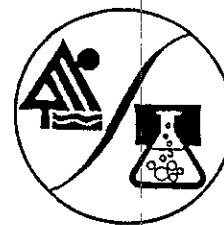
BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

  
Laboratory Representative

08-01-96  
Date Reported

**EXCELCHEM  
ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



QA/QC REPORT

Attention: Mr. Owen Kittredge Date Analyzed: 07-29-96  
Delta Environmental Matrix: Soil  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Project #: D095-967

|                  | TPHd |
|------------------|------|
|                  | PPM  |
| Reporting Limit: | 1.0  |

---

QA/QC PARAMETER

|              |    |
|--------------|----|
| Matrix Blank | ND |
|--------------|----|

---

PERCENT RECOVERIES

|              |     |
|--------------|-----|
| Matrix Spike | 93% |
|--------------|-----|

|                        |     |
|------------------------|-----|
| Matrix Spike Duplicate | 86% |
|------------------------|-----|

---

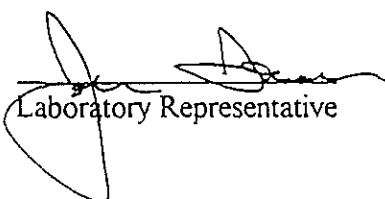
ppm = parts per million = mg/Kg = milligram per kilogram

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

Spikes & Spike Duplicates were each spiked with 5000 ug of diesel standard.

ANALYTICAL PROCEDURES

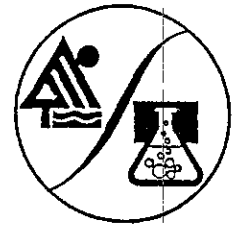
TPHd--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550, followed by modified EPA Method 8015, with direct sample injection into a GC equipped with an FID.

  
Laboratory Representative

08-01-96  
Date Reported

EXCELICHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



QA/QC REPORT

Attention: Mr. Owen Kittredge  
Delta Environmental  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Date Analyzed: 07-29-96  
Matrix: Soil

Project #: D095-967

Reporting Limit:                      TOG  
                     PPM  
                     50

QA/QC PARAMETER

Matrix Blank                      ND

PERCENT RECOVERIES

Matrix Spike                      86%

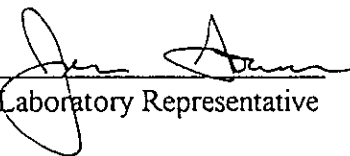
Matrix Spike                      94%  
Duplicate

ppm = parts per million = mg/Kg = milligram per kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

Spikes & Spike Duplicates were each spiked with 50mg of motor oil.

ANALYTICAL PROCEDURES

TOG-- Total oil and grease is measured gravimetrically by Standard Method 5520B, 18th Edition.

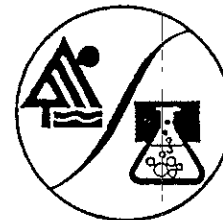
  
Laboratory Representative

08-01-96  
Date Reported

EXCEL CHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

|            |  |  |  |
|------------|--|--|--|
| Attention: | Mr. Owen Kittredge<br>Delta Environmental<br>3164 Gold Camp Drive, Suite 200<br>Rancho Cordova, CA 95670 | Date Sampled :<br>Date Received:<br>Date Digested:<br>Date Analyzed: | 07-29-96<br>07-29-96<br>08-16-96<br>08-16-96 |
| Project #: | D095-967   | Matrix:  | Soil   |

|                  |            |
|------------------|------------|
|                  | Lead       |
|                  | <u>PPM</u> |
| Reporting Limit: | 2.5        |

---

SAMPLE

Laboratory Identification

|                         |      |
|-------------------------|------|
| SP-4A,B,C,D<br>S0796704 | 25.4 |
|-------------------------|------|

|                         |      |
|-------------------------|------|
| SP-5A,B,C,D<br>S0796705 | 20.8 |
|-------------------------|------|

|                           |      |
|---------------------------|------|
| SP-3 I,J,K,L*<br>S0796751 | 7.80 |
|---------------------------|------|

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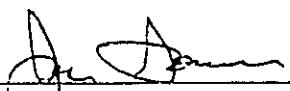
PPM = Parts per million = mg/Kg = milligram per Kilogram

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

\* = Date sampled : 07-31-96 Date Received: 07-31-96

ANALYTICAL PROCEDURES

LEAD-- is measured by digestion using EPA Method 3050 followed by EPA Method 7420.

  
\_\_\_\_\_  
Laboratory Representative

08-16-96  
Date Reported

EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



QA/QC REPORT

Attention: Mr. Owen Kittredge  
Delta Environmental  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Date Analyzed:  
Matrix:

08-16-96  
Soil

Project #: D095-967

Lead  
PPM  
2.5

Reporting Limit:

QA/QC PARAMETER

Matrix Blank

ND

PERCENT RECOVERIES

Laboratory Control Spike 101%

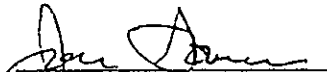
Laboratory Control Spike Duplicate 103%

ppm = parts per million = mg/Kg = milligram per kilogram

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

ANALYTICAL PROCEDURES

Lead-- is measured by digestion using EPA Method 3050, followed by EPA Method 7420.

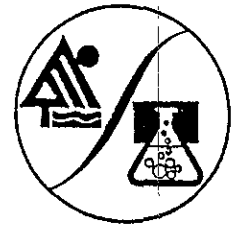
  
Laboratory Representative

08-16-96  
Date Reported



EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



QA/QC REPORT

Attention: Mr. Owen Kittredge Date Analyzed: 08-16-96  
Delta Environmental Matrix: Soil  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Project #: D095-967

Lead  
PPM  
Reporting Limit: 2.5

---

QA/QC PARAMETER

Matrix Blank ND

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PERCENT RECOVERIES

Matrix Spike 110%

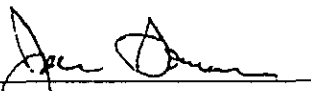
Matrix Spike Duplicate 61%\*

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ppm = parts per million = mg/Kg = milligram per kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.  
\* = QA/QC RPD is high due to sample homogeneity.

ANALYTICAL PROCEDURES

Lead— is measured by digestion using EPA Method 3050, followed by EPA Method 7420.

  
Laboratory Representative

08-16-96  
Date Reported

AUG 2 1 1996



3164 Gold Camp Drive, Suite 200  
Rancho Cordova, California 95670  
Phone: (916) 638-2085  
Fax: (916) 638-8385

### FAX TRANSMITTAL FORM

DATE: August 14, 1996

RECIPIENT: Mr. John Somers and/or Jason

COMPANY: Excelchem Environmental Lab

RECIPIENT FAX NO: (916) 773-4784

SENDER: Mike Berrington

NO. OF PAGES TO FOLLOW: 0

SUBJECT: Additional Analyses of Soil Stockpile  
Samples  
Former Beacon Station No. 546  
Hayward, California

DELTA PROJECT NO: D095-967

MESSAGE: Per my telephone conversation with

Jason this afternoon, Ultramar needs some additional laboratory analyses performed on the soil  
stockpile samples collected at this site on 7/31/96. The samples, Excelchem's lab ID number, and  
analyses required are as follows:

| <u>Delta Sample No.</u> | <u>Lab ID No.</u> | <u>Analyses Requested</u>  |
|-------------------------|-------------------|----------------------------|
| SP-1E,F,G,H             | S0796748          | EPA 8240 and CAM 17 Metals |
| SP-2E,F,G,H             | S0796749          | " "                        |
| SP-6A,B,C,D             | S0796752          | " "                        |
| SP-3I,J,K,L             | S0796751          | Total Lead                 |
| SP-4A,B,C,D             | S0796704          | " "                        |
| SP-5A,B,C,D             | S0796705          |                            |

The 8240 analysis need to be conducted today to meet the 14 day hold time requirement. Need a 48 hour TAT, or sooner if possible. Please fax results to Terry Fox at Ultramar (209-583-3282) and Owen Kittredge at Delta.



**Ultramar Inc.**  
CHAIN OF CUSTODY REPORT

**BEACON**

BO010104

|   |   |             |  |          |                |              |                        |                        |                    |
|---|---|-------------|--|----------|----------------|--------------|------------------------|------------------------|--------------------|
| Beacon Station No.<br><b>Former No. 546</b>                     | Sampler (Print Name)<br><b>Michael A. Berrington</b>  |             |  | ANALYSES |                |              |                        | Date<br><b>7/29/96</b> | Form No.<br>1 of 1 |
| Project No.<br><b>D095-967 (WAB)</b>                            | Sampler (Signature)<br><i>[Signature]</i>   |             |  | BTEX     | TPH (gasoline) | TPH (diesel) | <del>PAH</del>         | C10 organic            | No. of Containers  |
| Project Location<br><b>29705 MISSION BLVD.<br/>Hayward, CA.</b> | Affiliation<br><b>DELTA</b>   |             |  |          |                |              |                        |                        |                    |
| Sample No./Identification                                       | Date  | Time        | Lab No.  |          |                |              |                        |                        | REMARKS            |
| <b>OE-1A (11.75')</b>   | <b>7/29/96</b>  | <b>1025</b> | <b>S07966657</b>   | X        | X              | X            | X                      | X                      | <b>SOIL</b>        |
| <b>OE-1B (12')</b>  | <b>7/29/96</b>  | <b>1055</b> | <b>S07966659</b>   | X        | X              | X            | X                      | X                      |                    |
| <b>OE-1C (12')</b>  | <b>7/29/96</b>  | <b>1100</b> | <b>S07966660</b>   | X        | X              | X            | X                      | X                      | <b>Samples</b>     |
| <b>OE-1D (6')</b>   | <b>7/29/96</b>  | <b>1205</b> | <b>S07966661</b>   | X        | X              | X            | X                      | X                      | <b>rec'd</b>       |
| <b>OE-1E (14.5')</b>  | <b>7/29/96</b>  | <b>1250</b> | <b>S07966662</b>   | X        | X              | X            | X                      | X                      | <b>throughout</b>  |
| <b>OE-1F (15.5')</b>  | <b>7/29/96</b>  | <b>1340</b> | <b>S07966663</b>   | X        | X              | X            | X                      | X                      | <b>day by</b>      |
| <b>OE-1G (13.5')</b>  | <b>7/29/96</b>  | <b>1350</b> | <b>S07966664</b>   | X        | X              | X            | X                      | X                      | <b>Mobile lab.</b> |
| <b>OE-1H (14')</b>  | <b>7/29/96</b>  | <b>1430</b> | <b>S07966665</b>   | X        | X              | X            | X                      | X                      | <b>JA 7-29-96</b>  |
| Relinquished by: (Signature/Affiliation)<br><i>[Signature]</i>  | Date<br><b>7/29/96</b>  | Time        | Received by: (Signature/Affiliation)<br><i>[Signature]</i> |          |                |              | Date<br><b>7/29/96</b> | Time                   |                    |
| Relinquished by: (Signature/Affiliation)                        | Date  | Time        | Received by: (Signature/Affiliation)                       |          |                |              | Date                   | Time                   |                    |
| Relinquished by: (Signature/Affiliation)                        | Date  | Time        | Received by: (Signature/Affiliation)                       |          |                |              | Date                   | Time                   |                    |
| Report To:<br><b>OWEN KITTREDGE<br/>DELTA</b>                   | Bill to:<br><b>ULTRAMAR INC.<br/>525 West Third Street<br/>Hanford, CA 93230<br/>Attention: <b>T. FOX</b></b> |             |  |          |                |              |                        |                        |                    |

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy



**Ultramar Inc.**  
**CHAIN OF CUSTODY REPORT**

**BEACON**

| Beacon Station No.<br><i>Former No. 546</i>                            | Sampler (Print Name)<br><i>Michael A. Berrington</i>  |                     |  | ANALYSES  |                |              |                        | Date                | Form No. <i>1</i><br>of <i>1</i>  |
|--|---|---------------------|--|-----------|----------------|--------------|------------------------|---------------------|---|
| Project No.<br><i>DP95-967</i>   | Sampler (Signature)<br><i>[Signature]</i>   |                     |  |           |                |              |                        | BTEX                | TPH (gasoline)  |
| Project Location<br><i>29905 Mission Blvd<br/>Hayward, CA.</i>         | Affiliation<br><i>Delta</i>   |                     |  |           |                |              |                        |                     |   |
| Sample No./Identification  | Date  | Time                | Lab No.  | BTEX      | TPH (gasoline) | TPH (diesel) | Oil - Grease           | No. of Containers   | REMARKS   |
| <i>SP-1A, B, C, D</i>  | <i>7/29/96</i>  | <i>1515</i>         | <i>S07916701</i>   | <i>XX</i> | <i>XX</i>      | <i>XX</i>    | <i>XX</i>              | <i>4</i>            | <i>Soil - Composite</i><br><i>↓</i><br><i>↓</i><br><i>↓</i><br><i>↓</i> |
| <i>SP-2A, B, C, D</i>  | <i>↑</i>  | <i>1530</i>         | <i>S07916702</i>   | <i>XX</i> | <i>XX</i>      | <i>XX</i>    | <i>XX</i>              | <i>4</i>            |   |
| <i>SP-3A, B, C, D</i>  | <i>↑</i>  | <i>1540</i>         | <i>S07916703</i>   | <i>XX</i> | <i>XX</i>      | <i>XX</i>    | <i>XX</i>              | <i>4</i>            |   |
| <i>SP-4A, B, C, D</i>  | <i>↑</i>  | <i>1550</i>         | <i>S07916704</i>   | <i>XX</i> | <i>XX</i>      | <i>XX</i>    | <i>XX</i>              | <i>4</i>            |   |
| <i>SP-5A, B, C, D</i>  | <i>↓</i>  | <i>1600</i>         | <i>S07916705</i>   | <i>XX</i> | <i>XX</i>      | <i>XX</i>    | <i>XX</i>              | <i>4</i>            |   |
| Relinquished by: (Signature/Affiliation)<br><i>[Signature] / Delta</i> | Date<br><i>7/29/96</i>  | Time<br><i>1615</i> | Received by: (Signature/Affiliation)<br><i>[Signature]</i> |           |                |              | Date<br><i>7/29/96</i> | Time<br><i>1615</i> |   |
| Relinquished by: (Signature/Affiliation)                               | Date  | Time                | Received by: (Signature/Affiliation)                       |           |                |              | Date                   | Time                |   |
| Relinquished by: (Signature/Affiliation)                               | Date  | Time                | Received by: (Signature/Affiliation)                       |           |                |              | Date                   | Time                |   |
| Report To:<br><i>Owen Kottledge<br/>Delta</i>                          | Bill to:<br>ULTRAMAR INC.<br>525 West Third Street<br>Hanford, CA 93230<br>Attention: <i>T. FOX</i> |                     |  |           |                |              |                        |                     |   |

B0010105

**ENCLOSURE E**

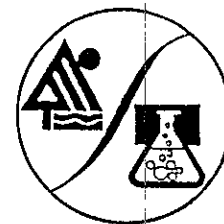
**Copies of Analytical Reports from Soil Samples  
Collected on July 31, 1996**

BO010106

EXCELICHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 TPHd Analyzed: 07-31-96  
Rancho Cordova, CA 95670

Project #: D095-967 Matrix: Soil

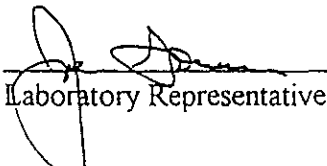
|                                       | TPHd<br>REPORTING<br>LIMIT<br>PPM | TPHd<br>ANALYSIS<br>RESULT<br>PPM |
|---------------------------------------|-----------------------------------|-----------------------------------|
| Sample:<br>Laboratory Identification: |                                   |                                   |
| SP-1E,F,G,H<br>S0796748               | 1.0                               | ND                                |
| SP-2E,F,G,H<br>S0796749               | 5.0                               | ND                                |
| SP-6A,B,C,D<br>S0796752               | 2.0                               | ND                                |

ppm = parts per million = mg/Kg = milligrams per Kilogram

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

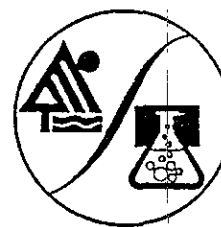
ANALYTICAL PROCEDURES

TPHd—Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 followed by modified EPA 8015 with direct sample injection into a GC equipped with an FID.

  
Laboratory Representative

08-02-96  
Date Reported

**EXCELCHEM  
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9  
Roseville, CA 95678

Phone#: (916) ~~773-4784~~ **ANALYSIS REPORT** (916) 773-4784

|            |                                 |                |          |
|------------|---------------------------------|----------------|----------|
| Attention: | Mr. Owen Kittredge              | Date Sampled : | 07-31-96 |
|            | Delta Environmental             | Date Received: | 07-31-96 |
|            | 3164 Gold Camp Drive, Suite 200 | BTEX Analyzed: | 07-31-96 |
|            | Rancho Cordova, CA 95670        | TPHg Analyzed: | 07-31-96 |

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 0.50       | 0.50       | 0.50              | 0.50             | 50         |

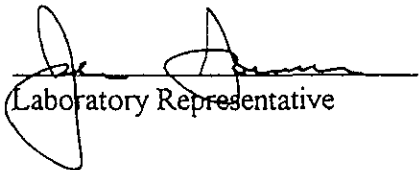
Sample:  
Laboratory Identification:

|          |    |       |      |      |     |
|----------|----|-------|------|------|-----|
| OE-10    | ND | 0.602 | 8.69 | 44.3 | 586 |
| S0796743 |    |       |      |      |     |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

**ANALYTICAL PROCEDURES**

BTEX- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).  
TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-02-96  
Date Reported

EXCEL CHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 BTEX Analyzed: 07-31-96  
Rancho Cordova, CA 95670 TPHg Analyzed: 07-31-96

Project #: D095-967 Matrix: Soil

|                            | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|----------------------------|------------|------------|-------------------|------------------|------------|
|                            | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit:           | 1.30       | 1.30       | 1.30              | 1.30             | 130        |
| Sample:                    |            |            |                   |                  |            |
| Laboratory Identification: |            |            |                   |                  |            |
| OE-1P                      | ND         | 4.14       | 31.9              | 181              | 1540       |
| S0796744                   |            |            |                   |                  |            |

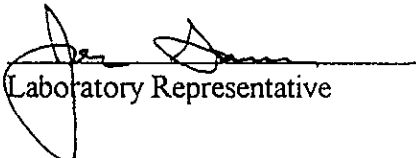
ppm = parts per million = mg/Kg = milligrams per Kilogram

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

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

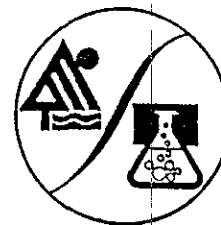
  
Laboratory Representative

08-01-96  
Date Reported



EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07/31-96  
Delta Environmental Date Received: 07/31-96  
3164 Gold Camp Drive, Suite 200 BTEX Analyzed: 07/31-96  
Rancho Cordova, CA 95670 TPHg Analyzed: 07/31-96

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 0.60       | 0.60       | 0.60              | 0.60             | 60         |

Sample:

Laboratory Identification:

|          |    |    |      |      |     |
|----------|----|----|------|------|-----|
| OE-1Q    | ND | ND | 2.27 | 9.06 | 325 |
| S0796745 |    |    |      |      |     |

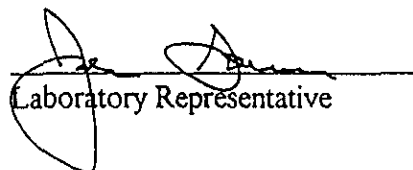
ppm = parts per million = mg/Kg = milligrams per Kilogram

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

ANALYTICAL PROCEDURES

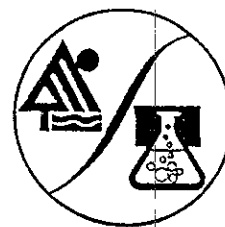
BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-02-96  
Date Reported

**EXCEL CHEM  
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784

**ANALYSIS REPORT**

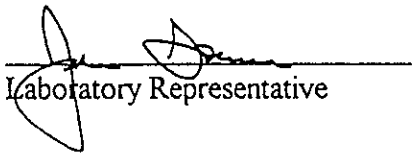
|            |                                 |                |          |
|------------|---------------------------------|----------------|----------|
| Attention: | Mr. Owen Kittredge              | Date Sampled : | 07/31-96 |
|            | Delta Environmental             | Date Received: | 07/31-96 |
|            | 3164 Gold Camp Drive, Suite 200 | BTEX Analyzed: | 07/31-96 |
|            | Rancho Cordova, CA 95670        | TPHg Analyzed: | 07/31-96 |
| Project #: | D095-967                        | Matrix:        | Soil     |

|                            | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-<br/>benzene</u> | <u>Total<br/>Xylenes</u> | <u>TPHg</u> |
|----------------------------|----------------|----------------|---------------------------|--------------------------|-------------|
|                            | <u>PPM</u>     | <u>PPM</u>     | <u>PPM</u>                | <u>PPM</u>               | <u>PPM</u>  |
| Reporting Limit:           | 0.650          | 0.650          | 0.650                     | 0.650                    | 65.0        |
| Sample:                    |                |                |                           |                          |             |
| Laboratory Identification: |                |                |                           |                          |             |
| OE-1R                      | ND             | 0.733          | 14.5                      | 63.4                     | 1270        |
| S0796746                   |                |                |                           |                          |             |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

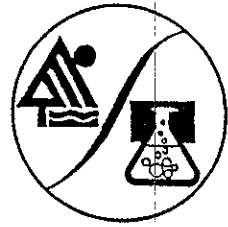
**ANALYTICAL PROCEDURES**

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).  
TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-02-96  
Date Reported

**EXCELCHEM  
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784

**ANALYSIS REPORT**


|            |  |                |                |
|------------|--|----------------|----------------|
| Attention: | Mr. Owen Kittredge<br>Delta Environmental<br>3164 Gold Camp Drive, Suite 200<br>Rancho Cordova, CA 95670 | Date Sampled : | 07-31-96       |
|            |  | Date Received: | 07-31-96       |
|            |  | BTEX Analyzed: | 07-31,08-01-96 |
|            |  | TPHg Analyzed: | 07-31,08-01-96 |
| Project #: | D095-967   | Matrix:        | Soil           |

|                                   | <u>Benzene</u><br><u>PPM</u> | <u>Toluene</u><br><u>PPM</u> | <u>Ethyl-<br/>benzene</u><br><u>PPM</u> | <u>Total<br/>Xylenes</u><br><u>PPM</u> | <u>TPHg</u><br><u>PPM</u> |
|-----------------------------------|------------------------------|------------------------------|---|--|---------------------------|
| <b>Reporting Limit:</b>           | 0.005                        | 0.005                        | 0.005                                   | 0.005                                  | 1.0                       |
| <b>Sample:</b>                    |                              |                              |   |  |                           |
| <b>Laboratory Identification:</b> |                              |                              |   |  |                           |
| OE-1J<br>S0796738                 | ND                           | ND                           | ND                                      | ND                                     | ND                        |
| OE-1H<br>S0796665                 | ND                           | ND                           | ND                                      | ND                                     | ND                        |
| OE-1S<br>S0796747                 | ND                           | ND                           | ND                                      | 0.017                                  | ND                        |
| SP-1E,F,G,H<br>S0796748           | ND                           | ND                           | 0.008                                   | 0.081                                  | 2.26                      |
| SP-2E,F,G,H<br>S0796749           | ND                           | ND                           | 0.006                                   | 0.065                                  | 4.82                      |
| SP-6A,B,C,D<br>S0796752           | 0.012                        | 0.094                        | 0.023                                   | 0.250                                  | 1.48                      |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

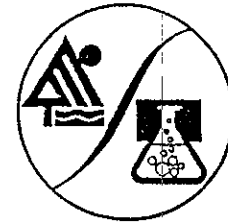
**ANALYTICAL PROCEDURES**

**BTEX**-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).  
**TPHg**--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
\_\_\_\_\_  
Laboratory Representative

08-02-96  
Date Reported

**EXCEL CHEM  
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784

**ANALYSIS REPORT**

|            |                                 |                |          |
|------------|---------------------------------|----------------|----------|
| Attention: | Mr. Owen Kittredge              | Date Sampled : | 07-31-96 |
|            | Delta Environmental             | Date Received: | 07-31-96 |
|            | 3164 Gold Camp Drive, Suite 200 | BTEX Analyzed: | 08-01-96 |
|            | Rancho Cordova, CA 95670        | TPHg Analyzed: | 08-01-96 |

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 0.130      | 0.130      | 0.130             | 0.130            | 13.0       |

Sample:

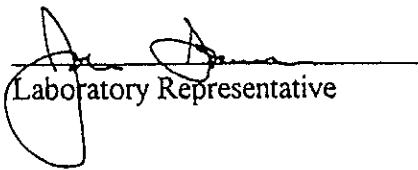
Laboratory Identification:

|             |    |       |       |      |      |
|-------------|----|-------|-------|------|------|
| SP-3E,F,G,H | ND | 0.198 | 0.382 | 2.17 | 50.0 |
| S0796750    |    |       |       |      |      |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

**ANALYTICAL PROCEDURES**

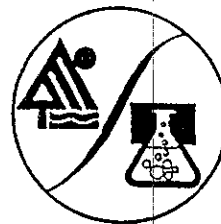
BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).  
TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-02-96  
Date Reported

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ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



**ANALYSIS REPORT**

|            |                                 |                |          |
|------------|---------------------------------|----------------|----------|
| Attention: | Mr. Owen Kittredge              | Date Sampled : | 07/31-96 |
|            | Delta Environmental             | Date Received: | 07/31-96 |
|            | 3164 Gold Camp Drive, Suite 200 | BTEX Analyzed: | 08-01-96 |
|            | Rancho Cordova, CA 95670        | TPHg Analyzed: | 08-01-96 |

Project #: D095-967 Matrix: Soil

|                         | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|-------------------------|------------|------------|-------------------|------------------|------------|
|                         | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| <u>Reporting Limit:</u> | 0.650      | 0.650      | 0.650             | 0.650            | 65.0       |

Sample:

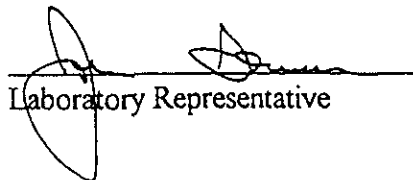
Laboratory Identification:

|             |    |       |      |      |     |
|-------------|----|-------|------|------|-----|
| SP-3I,J,K,L | ND | 0.175 | 2.39 | 12.6 | 244 |
| S0796751    |    |       |      |      |     |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

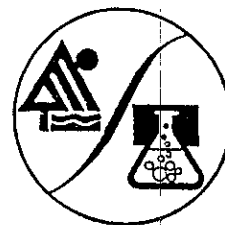
**ANALYTICAL PROCEDURES**

**BTEX**-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).  
**TPHg**-- Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-02-96  
Date Reported

EXCEL CHEM  
ENVIRONMENTAL LABS



500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 BTEX Analyzed: 07-31-96  
Rancho Cordova, CA 95670 TPHg Analyzed: 07-31-96

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 0.50       | 0.50       | 0.50              | 0.50             | 50         |

Sample:  
Laboratory Identification:

|          |    |      |      |      |     |
|----------|----|------|------|------|-----|
| OE-11    | ND | 0.78 | 3.15 | 17.2 | 188 |
| S0796737 |    |      |      |      |     |

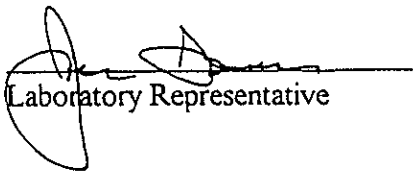
ppm = parts per million = mg/Kg = milligrams per Kilogram

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

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

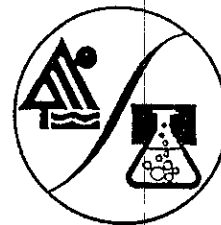
TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 3015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-02-96  
Date Reported

EXCELICHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 BTEX Analyzed: 07-31-96  
Rancho Cordova, CA 95670 TPHg Analyzed: 07-31-96

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 0.40       | 0.40       | 0.40              | 0.40             | 25         |

Sample:

Laboratory Identification:

|          |    |      |      |      |     |
|----------|----|------|------|------|-----|
| OE-1K    | ND | 6.89 | 10.3 | 57.3 | 630 |
| S0796739 |    |      |      |      |     |

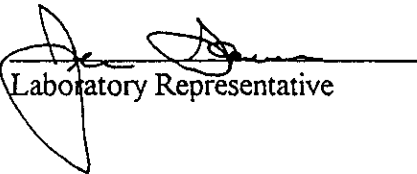
ppm = parts per million = mg/Kg = milligrams per Kilogram

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

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

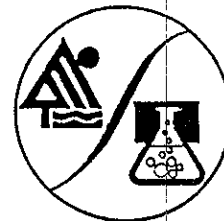
  
Laboratory Representative

08-02-96  
Date Reported

**EXCELICHEM  
ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 9  
Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



**ANALYSIS REPORT**

|            |                                 |                |          |
|------------|---------------------------------|----------------|----------|
| Attention: | Mr. Owen Kittredge              | Date Sampled : | 07-31-96 |
|            | Delta Environmental             | Date Received: | 07-31-96 |
|            | 3164 Gold Camp Drive, Suite 200 | BTEX Analyzed: | 07-31-96 |
|            | Rancho Cordova, CA 95670        | TPHg Analyzed: | 07-31-96 |

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 0.050      | 0.050      | 0.050             | 0.050            | 10         |

Sample:

Laboratory Identification:

|                    |    |      |       |       |      |
|--------------------|----|------|-------|-------|------|
| OE-1L<br>S0796740  | ND | ND   | 0.068 | 0.544 | 24.8 |
| OE-1N*<br>S0796742 | ND | 5.19 | 8.74  | 47.4  | 540  |

ppm = parts per million = mg/Kg = milligrams per Kilogram

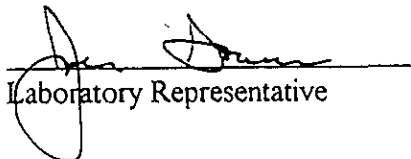
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

\* = Poor surrogate recovery due to matrix interferences

**ANALYTICAL PROCEDURES**

**BTEX**— Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

**TPHg**—Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

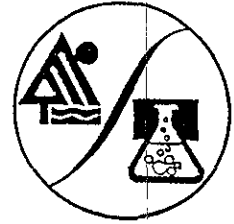
  
Laboratory Representative

08-02-96  
Date Reported



EXCELCHEM  
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500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 BTEX Analyzed: 07-31-96  
Rancho Cordova, CA 95670 TPHg Analyzed: 07-31-96

Project #: D095-967 Matrix: Soil

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | TPHg       |
|------------------|------------|------------|-------------------|------------------|------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       | <u>PPM</u> |
| Reporting Limit: | 0.025      | 0.025      | 0.025             | 0.025            | 5.0        |

Sample:

Laboratory Identification:

|          |    |     |       |       |      |
|----------|----|-----|-------|-------|------|
| OE-1M*   | ND | NDD | 0.025 | 0.287 | 60.9 |
| S0796741 |    |     |       |       |      |

ppm = parts per million = mg/Kg = milligrams per Kilogram

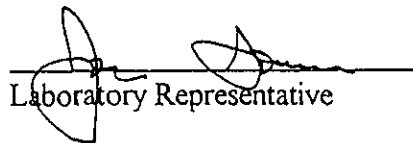
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

\* = Poor surrogate recovery due to matrix interferences.

ANALYTICAL PROCEDURES

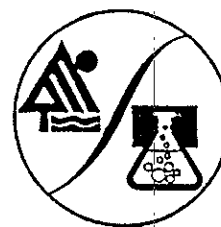
BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low to medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015 which utilizes a GC equipped with a FID.

  
Laboratory Representative

08-02-96  
Date Reported

EXCELCHEM  
ENVIRONMENTAL LABS



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Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 TOG Analyzed: 07-31-96  
Rancho Cordova, CA 95670

Project #: D095-967 Matrix: Soil

Reporting Limit: TOG  
PPM  
50

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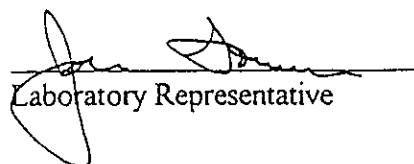
Sample:  
Laboratory Identification:

|                         |     |
|-------------------------|-----|
| OE-1J<br>S0796738       | ND  |
| OE-1L<br>S0796740       | 78  |
| OE-1M<br>S0796741       | 126 |
| SP-1E,F,G,H<br>S0796748 | 56  |
| SP-2E,F,G,H<br>S0796749 | 292 |
| SP-6A,B,C,D<br>S0796752 | 134 |

ppm = parts per million = mg/Kg = milligrams per Kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

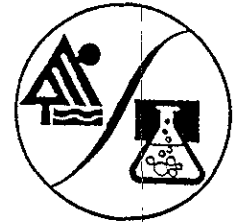
TOG-- Total oil and grease is measured by Standard Method 5520B, 18th Edition.

  
Laboratory Representative

08-02-96  
Date Reported

EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



QA/QC REPORT

Attention: Mr. Owen Kittredge Date Analyzed: 07-31-96  
Delta Environmental Matrix: Soil  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Project #: D095-967

|                  | Benzene    | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes |
|------------------|------------|------------|-------------------|------------------|
|                  | <u>PPM</u> | <u>PPM</u> | <u>PPM</u>        | <u>PPM</u>       |
| Reporting Limit: | 0.005      | 0.005      | 0.005             | 0.005            |

QA/QC PARAMETER

|              |    |    |    |    |
|--------------|----|----|----|----|
| Matrix Blank | ND | ND | ND | ND |
|--------------|----|----|----|----|

PERCENT RECOVERIES

|                           |      |      |      |      |
|---------------------------|------|------|------|------|
| Matrix Spike              | 98%  | 99%  | 97%  | 98%  |
| Matrix Spike<br>Duplicate | 104% | 104% | 103% | 104% |

ppm = parts per million = mg/Kg = milligram per kilogram

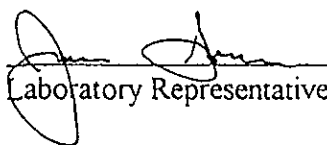
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

All surrogate recoveries were within 30% of target values.

Spikes & Spike Duplicates were each spiked with 250 ng BTEX standard.

ANALYTICAL PROCEDURES

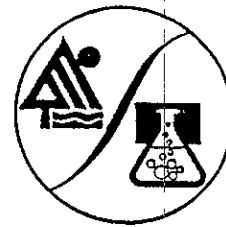
BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

  
Laboratory Representative

08-02-96  
Date Reported

EXCELCHEM  
ENVIRONMENTAL LABS

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Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



QA/QC REPORT

Attention: Mr. Owen Kittredge Date Analyzed: 08-01-96  
Delta Environmental Matrix: Soil  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Project #: D095-967

Reporting Limit: TOG  
PPM  
50

QA/QC PARAMETER

Matrix Blank ND

PERCENT RECOVERIES

Laboratory Control Spike 130%

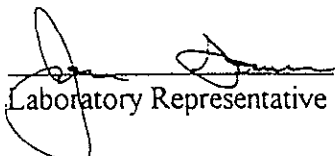
Laboratory Control Spike 126%  
Duplicate

ppm = parts per million = mg/Kg = milligram per kilogram  
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

Spikes & Spike Duplicates were each spiked with 50mg of motor oil.

ANALYTICAL PROCEDURES

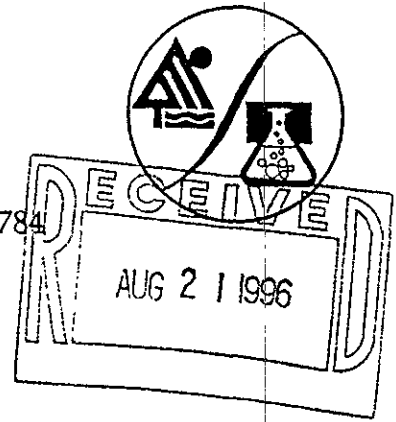
TOG-- Total oil and grease is measured gravimetrically by Standard Method 5520B, 18th Edition.

  
Laboratory Representative

08-02-96  
Date Reported

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ENVIRONMENTAL LABS**

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Phone#: (916) 773-3664 Fax#: (916) 773-4784



**ANALYSIS REPORT**

Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 Date Analyzed: 08-14-96  
Rancho Cordova, CA 95670

Project #: D095-967 Matrix: Soil

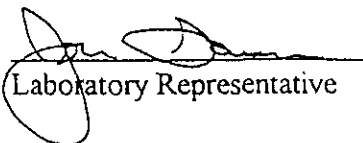
Sample: SP-1 E,F,G,H  
Lab Id: S0796748

| 8240 GCMS                 | Measured Value (ug/Kg) | Reporting Limit (ug/Kg) |                           | Measured Value (ug/Kg) | Reporting Limit (ug/Kg) |
|---------------------------|------------------------|-------------------------|---------------------------|------------------------|-------------------------|
| 1,1-Dichloroethane        | ND                     | 5                       | Carbon Disulfide          | ND                     | 5                       |
| 1,1-Dichloroethene        | ND                     | 5                       | Carbon Tetrachloride      | ND                     | 5                       |
| 1,1,1-Trichloroethane     | ND                     | 5                       | Chlorobenzene             | ND                     | 5                       |
| Dichlorodifluoromethane   | ND                     | 5                       | Chloroethane              | ND                     | 5                       |
| 1,1,2,2-Tetrachloroethane | ND                     | 5                       | Chloroform                | ND                     | 5                       |
| 1,2-Dichloroethane        | ND                     | 5                       | 4-Methyl-2-pentanone      | ND                     | 5                       |
| 1,2-Dichloropropane       | ND                     | 5                       | cis-1,3-Dichloropropene   | ND                     | 5                       |
| trans-1,2-Dichloroethene  | ND                     | 5                       | Dibromochloromethane      | ND                     | 5                       |
| 1,2-Dichlorobenzene       | ND                     | 5                       | Ethylbenzene              | 19                     | 5                       |
| 1,3-Dichlorobenzene       | ND                     | 5                       | Methylene chloride        | ND                     | 5                       |
| 1,4-Dichlorobenzene       | ND                     | 5                       | Styrene                   | ND                     | 5                       |
| Iodomethane               | ND                     | 5                       | Tetrachloroethene         | ND                     | 5                       |
| M+P-Xylene                | 56                     | 5                       | Toluene                   | 9                      | 5                       |
| O-Xylene                  | 67                     | 5                       | trans-1,3-Dichloropropene | ND                     | 5                       |
| Benzene                   | ND                     | 5                       | Trichloroethene           | ND                     | 5                       |
| Bromodichloromethane      | ND                     | 5                       | Trichlorofluoromethane    | ND                     | 5                       |
| Bromoform                 | ND                     | 5                       | Vinyl chloride            | ND                     | 5                       |
| Bromomethane              | ND                     | 5                       |                           |                        |                         |

ppb = Parts per billion = ug/Kg = micrograms per Kilogram

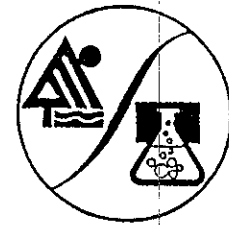
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

Surrogate Recovery -  
1,2-Dichloroethane d-4 = 87%  
Toluene d-8 = 99%  
4-Bromofluorobenzene = 92%

  
Laboratory Representative

08-15-96  
Date Reported

**EXCEL CHEM  
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784

**ANALYSIS REPORT**

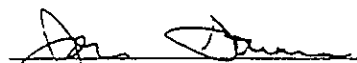
|            |  |                |          |
|------------|--|----------------|----------|
| Attention: | Mr. Owen Kittredge<br>Delta Environmental<br>3164 Gold Camp Drive, Suite 200<br>Rancho Cordova, CA 95670 | Date Sampled : | 07-31-96 |
|            |  | Date Received: | 07-31-96 |
|            |  | Date Analyzed: | 08-14-96 |
| Project #: | D095-967   | Matrix:        | Soil     |
| Sample:    | SP-2 E,F,G,H   |                |          |
| Lab Id:    | S0796749   |                |          |

| 8240 GCMS                 | Measured Value (ug/Kg) | Reporting Limit (ug/Kg) | Measured Value (ug/Kg)    | Reporting Limit (ug/Kg) |    |
|---------------------------|------------------------|-------------------------|---------------------------|-------------------------|----|
| 1,1-Dichloroethane        | ND                     | 10                      | Carbon Disulfide          | ND                      | 10 |
| 1,1-Dichloroethene        | ND                     | 10                      | Carbon Tetrachloride      | ND                      | 10 |
| 1,1,1-Trichloroethane     | ND                     | 10                      | Chlorobenzene             | +15                     | 10 |
| Dichlorodifluoromethane   | ND                     | 10                      | Chloroethane              | ND                      | 10 |
| 1,1,2,2-Tetrachloroethane | +185                   | 10                      | Chloroform                | ND                      | 10 |
| 1,2-Dichloroethane        | ND                     | 10                      | 4-Methyl-2-pentanone      | ND                      | 10 |
| 1,2-Dichloropropane       | ND                     | 10                      | cis-1,3-Dichloropropene   | ND                      | 10 |
| trans-1,2-Dichloroethene  | ND                     | 10                      | Dibromochloromethane      | ND                      | 10 |
| 1,2-Dichlorobenzene       | ND                     | 10                      | Ethylbenzene              | 54                      | 10 |
| 1,3-Dichlorobenzene       | ND                     | 10                      | Methylene chloride        | ND                      | 10 |
| 1,4-Dichlorobenzene       | ND                     | 10                      | Styrene                   | ND                      | 10 |
| Iodomethane               | ND                     | 10                      | Tetrachloroethene         | ND                      | 10 |
| M+P-Xylene                | 199                    | 10                      | Toluene                   | ND                      | 10 |
| O-Xylene                  | #417                   | 10                      | trans-1,3-Dichloropropene | ND                      | 10 |
| Benzene                   | ND                     | 10                      | Trichloroethene           | ND                      | 10 |
| Bromodichloromethane      | ND                     | 10                      | Trichlorofluoromethane    | ND                      | 10 |
| Bromoform                 | ND                     | 10                      | Vinyl chloride            | ND                      | 10 |
| Bromomethane              | ND                     | 10                      |                           |                         |    |

ppb = Parts per billion = ug/Kg = micrograms per Kilogram  
 ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.  
 # = Beyond linear range of detection.  
 - = Qualifier ions present but not in the proper ratios due to hydrocarbon contamination.

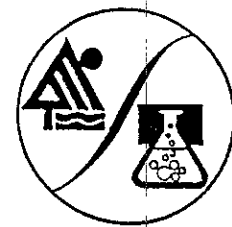
Surrogate Recovery -  
                           1,2-Dichloroethane d-4 = 87%  
                           Toluene d-8 = 98%  
                           4-Bromofluorobenzene = 199%\*

\* = Surrogate recovery beyond QA/QC limits due to matrix interferences.

  
 Laboratory Representative

08-15-96  
 Date Reported

**EXCELCHEM  
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784

**ANALYSIS REPORT**

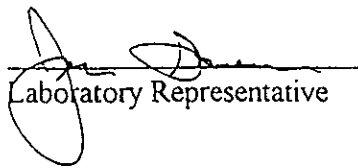
|            |                                 |                |          |
|------------|---------------------------------|----------------|----------|
| Attention: | Mr. Owen Kittredge              | Date Sampled : | 07-31-96 |
|            | Delta Environmental             | Date Received: | 07-31-96 |
|            | 3164 Gold Camp Drive, Suite 200 | Date Analyzed: | 08-14-96 |
|            | Rancho Cordova, CA 95670        |                |          |
| Project #: | D095-967                        | Matrix:        | Soil     |
| Sample:    | SP-6 A,B,C,D                    |                |          |
| Lab Id:    | S0796752                        |                |          |

| 8240 GCMS                 | Measured Value (ug/Kg) | Reporting Limit (ug/Kg) |                           | Measured Value (ug/Kg) | Reporting Limit (ug/Kg) |
|---------------------------|------------------------|-------------------------|---------------------------|------------------------|-------------------------|
| 1,1-Dichloroethane        | ND                     | 5                       | Carbon Disulfide          | ND                     | 5                       |
| 1,1-Dichloroethene        | ND                     | 5                       | Carbon Tetrachloride      | ND                     | 5                       |
| 1,1,1-Trichloroethane     | ND                     | 5                       | Chlorobenzene             | ND                     | 5                       |
| Dichlorodifluoromethane   | ND                     | 5                       | Chloroethane              | ND                     | 5                       |
| 1,1,2,2-Tetrachloroethane | ND                     | 5                       | Chloroform                | ND                     | 5                       |
| 1,2-Dichloroethane        | ND                     | 5                       | 4-Methyl-2-pentanone      | ND                     | 5                       |
| 1,2-Dichloropropane       | ND                     | 5                       | cis-1,3-Dichloropropene   | ND                     | 5                       |
| trans-1,2-Dichloroethene  | ND                     | 5                       | Dibromochloromethane      | ND                     | 5                       |
| 1,2-Dichlorobenzene       | ND                     | 5                       | Ethylbenzene              | ND                     | 5                       |
| 1,3-Dichlorobenzene       | ND                     | 5                       | Methylene chloride        | ND                     | 5                       |
| 1,4-Dichlorobenzene       | ND                     | 5                       | Styrene                   | ND                     | 5                       |
| Iodomethane               | ND                     | 5                       | Tetrachloroethene         | ND                     | 5                       |
| M+P-Xylene                | 15                     | 5                       | Toluene                   | 5                      | 5                       |
| O-Xylene                  | 44                     | 5                       | trans-1,3-Dichloropropene | ND                     | 5                       |
| Benzene                   | ND                     | 5                       | Trichloroethene           | ND                     | 5                       |
| Bromodichloromethane      | ND                     | 5                       | Trichlorofluoromethane    | ND                     | 5                       |
| Bromoform                 | ND                     | 5                       | Vinyl chloride            | ND                     | 5                       |
| Bromomethane              | ND                     | 5                       |                           |                        |                         |

ppb = Parts per billion ug/Kg = micrograms per Kilogram

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

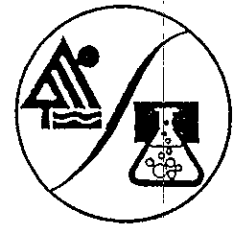
Surrogate Recovery -  
 1,2-Dichloroethane d-4 = 86%  
 Toluene d-8 = 100%  
 4-Bromofluorobenzene = 93%

  
 Laboratory Representative

08-15-96  
 Date Reported

EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



QA/QC REPORT

Attention: Mr. Owen Kittredge Date Analyzed: 08-14-96  
Delta Environmental Matrix: Soil  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Project #: D095-967

| <u>Compound</u>    | <u>Matrix Spike<br/>% Recovery</u> | <u>Matrix Spike Duplicate<br/>% Recovery</u> |
|--------------------|------------------------------------|--|
| 1,1-dichloroethene | 87%                                | 85%  |
| trichloroethene    | 92%                                | 93%  |
| chlorobenzene      | 90%                                | 93%  |
| toluene            | 92%                                | 94%  |
| benzene            | 89%                                | 93%  |

ANALYTICAL PROCEDURES

HV-Halogenated Volatiles are measured using EPA Method 8240 which utilizes a purge and trap interfaced to a gas chromatograph (GC) equipped with a mass spectrometer.

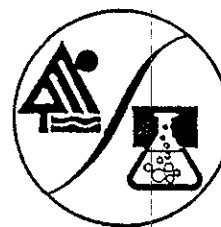
  
Laboratory Representative

08-15-96  
Date Reported



EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 Date Analyzed: 08-15-96  
Rancho Cordova, CA 95670  
Project #: D095-967 Matrix: Soil  
Sample Id#: SP-1 E,F,G,H  
Lab Id: S0796748

| EPA METHOD<br>6010 | Measured<br>Value<br>(mg/Kg) | Reporting<br>Limit<br>(mg/Kg) |
|--------------------|------------------------------|-------------------------------|
| Antimony (Sb)      | 0.67                         | 0.25                          |
| Arsenic (As)       | 5.8                          | 0.25                          |
| Barium (Ba)        | 182                          | 0.05                          |
| Beryllium (Be)     | ND                           | 0.05                          |
| Cadmium (Cd)       | ND                           | 0.15                          |
| Chromium (Cr)      | 59                           | 0.15                          |
| Cobalt (Co)        | 17                           | 0.15                          |
| Copper (Cu)        | 49                           | 0.15                          |
| Lead (Pb)          | 10                           | 0.25                          |
| Mercury (Hg)*      | ND                           | 0.10                          |
| Molybdenum (Mo)    | 1.1                          | 0.25                          |
| Nickel (Ni)        | 86                           | 0.15                          |
| Selenium (Se)      | 0.63                         | 0.25                          |
| Silver (Ag)        | ND                           | 0.05                          |
| Thallium (Tl)      | 3.8                          | 0.25                          |
| Vanadium (V)       | 61                           | 0.15                          |
| Zinc (Zn)          | 78                           | 0.50                          |

ppm = Parts per million = mg/Kg = milligram per Kilogram

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

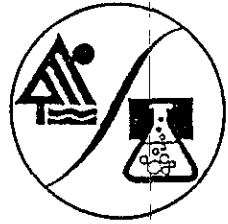
\* = Analysis by EPA Method 7471.

  
Laboratory Representative

08-16-96  
Date Reported

EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

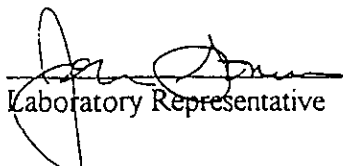
Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 Date Analyzed: 08-15-96  
Rancho Cordova, CA 95670  
Project #: D095-967 Matrix: Soil  
Sample Id#: SP-2 E,F,G,H  
Lab Id: S0796749

| EPA METHOD<br>6010 | Measured<br>Value<br>(mg/Kg) | Reporting<br>Limit<br>(mg/Kg) |
|--------------------|------------------------------|-------------------------------|
| Antimony (Sb)      | 0.75                         | 0.25                          |
| Arsenic (As)       | 7.1                          | 0.25                          |
| Barium (Ba)        | 145                          | 0.05                          |
| Beryllium (Be)     | 0.059                        | 0.05                          |
| Cadmium (Cd)       | ND                           | 0.15                          |
| Chromium (Cr)      | 51                           | 0.15                          |
| Cobalt (Co)        | 14                           | 0.15                          |
| Copper (Cu)        | 42                           | 0.15                          |
| Lead (Pb)          | 8.9                          | 0.25                          |
| Mercury (Hg)*      | 0.11                         | 0.10                          |
| Molybdenum (Mo)    | 1.6                          | 0.25                          |
| Nickel (Ni)        | 67                           | 0.15                          |
| Selenium (Se)      | 0.95                         | 0.25                          |
| Silver (Ag)        | 0.10                         | 0.05                          |
| Thallium (Tl)      | 4.1                          | 0.25                          |
| Vanadium (V)       | 59                           | 0.15                          |
| Zinc (Zn)          | 73                           | 0.50                          |

ppm = Parts per million = mg/Kg = milligram per Kilogram

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

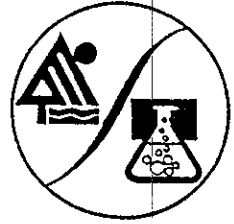
\* = Analysis by EPA Method 7471.

  
Laboratory Representative

08-16-96  
Date Reported

EXCELCHEM  
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



ANALYSIS REPORT

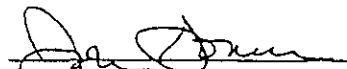
Attention: Mr. Owen Kittredge Date Sampled : 07-31-96  
Delta Environmental Date Received: 07-31-96  
3164 Gold Camp Drive, Suite 200 Date Analyzed: 08-15-96  
Rancho Cordova, CA 95670  
Project #: D095-967 Matrix: Soil  
Sample Id#: SP-6 A,B,C,D  
Lab Id: S0796752

| EPA METHOD<br>6010 | Measured<br>Value<br>(mg/Kg) | Reporting<br>Limit<br>(mg/Kg) |
|--------------------|------------------------------|-------------------------------|
| Antimony (Sb)      | 1.2                          | 0.25                          |
| Arsenic (As)       | 6.1                          | 0.25                          |
| Barium (Ba)        | 192                          | 0.05                          |
| Beryllium (Be)     | ND                           | 0.05                          |
| Cadmium (Cd)       | ND                           | 0.15                          |
| Chromium (Cr)      | 107                          | 0.15                          |
| Cobalt (Co)        | 19                           | 0.15                          |
| Copper (Cu)        | 42                           | 0.15                          |
| Lead (Pb)          | 9.9                          | 0.25                          |
| Mercury (Hg)*      | ND                           | 0.10                          |
| Molybdenum (Mo)    | 0.94                         | 0.25                          |
| Nickel (Ni)        | 120                          | 0.15                          |
| Selenium (Se)      | 0.57                         | 0.25                          |
| Silver (Ag)        | 0.32                         | 0.05                          |
| Thallium (Tl)      | 4.3                          | 0.25                          |
| Vanadium (V)       | 71                           | 0.15                          |
| Zinc (Zn)          | 83                           | 0.50                          |

ppm = Parts per million = mg/Kg = milligram per Kilogram

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

\* = Analysis by EPA Method 7471.

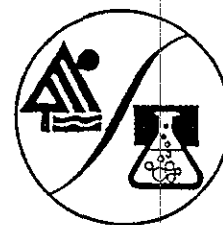
  
Laboratory Representative

08-16-96  
Date Reported

**EXCELCHEM  
ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 9  
Roseville, CA 95678

Phone#: (916) 773-3664 Fax#: (916) 773-4784



**QA/QC REPORT**

Attention: Mr. Owen Kittredge  
Delta Environmental  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Date Analyzed: 08-15-96  
Matrix: Soil

Project #: D095-967

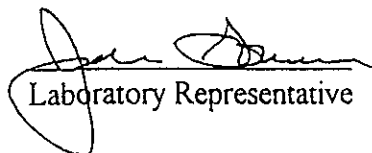
**MS/MSD RECOVERIES**

Unit = mg/Kg

| Element | Sample Conc. | Spike Conc. | MS  | MS% Recovery | MSD | MSD% Recovery | % RPD |
|---------|--------------|-------------|-----|--------------|-----|---------------|-------|
| (Sb)    | 0.67         | 125         | 78  | 62%          | 77  | 61%           | 1%    |
| (As)    | 5.8          | 125         | 104 | 79%          | 110 | 83%           | 6%    |
| (Ba)    | 182          | 125         | 320 | 110%         | 340 | 126%          | 14%   |
| (Be)    | ND           | 125         | 98  | 78%          | 100 | 80%           | 2%    |
| (Cd)    | ND           | 125         | 94  | 75%          | 97  | 78%           | 3%    |
| (Cr)    | 59           | 125         | 168 | 87%          | 223 | 131%          | 40%   |
| (Co)    | 17           | 125         | 116 | 79%          | 122 | 84%           | 6%    |
| (Cu)    | 49           | 125         | 161 | 90%          | 170 | 97%           | 8%    |
| (Pb)    | 10           | 125         | 103 | 74%          | 108 | 78%           | 5%    |
| (Mo)    | 1.1          | 125         | 104 | 82%          | 108 | 86%           | 4%    |
| (Ni)    | 86           | 125         | 191 | 84%          | 201 | 92%           | 9%    |
| (Se)    | 0.63         | 125         | 86  | 68%          | 91  | 72%           | 6%    |
| (Ag)    | ND           | 125         | 124 | 99%          | 129 | 103%          | 4%    |
| (Tl)    | 3.8          | 125         | 102 | 79%          | 107 | 83%           | 5%    |
| (V)     | 61           | 125         | 178 | 94%          | 186 | 100%          | 7%    |
| (Zn)    | 78           | 125         | 161 | 66%          | 166 | 70%           | 6%    |

ppm = parts per million = mg/Kg = milligram per kilogram

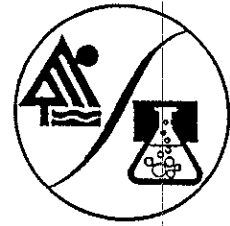
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

  
Laboratory Representative

08-16-96  
Date Reported

**EXCELCHEM  
ENVIRONMENTAL LABS**

500 Giuseppe Court, Suite 9  
Roseville, CA 95678  
Phone#: (916) 773-3664 Fax#: (916) 773-4784



**QA/QC REPORT**

Attention: Mr. Owen Kittredge  
Delta Environmental  
3164 Gold Camp Drive, Suite 200  
Rancho Cordova, CA 95670

Date Analyzed: 08-15-96  
Matrix: Soil

Project #: D095-967

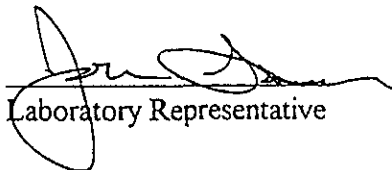
**MS/MSD RECOVERIES**

Unit = mg/Kg

| Element | Sample Conc. | Spike Conc. | MS   | MS% Recovery | MSD  | MSD% Recovery | % RPD |
|---------|--------------|-------------|------|--------------|------|---------------|-------|
| (Hg)    | ND           | 0.83        | 0.93 | 112%         | 1.00 | 120%          | 7%    |

ppm = parts per million = mg/Kg = milligram per kilogram

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

  
Laboratory Representative

08-16-96  
Date Reported

**Excelchem**  
Environmental Labs

500 Giuseppe Court, Suite 9  
Roseville, Ca. 95678  
(916) 773-3664

**CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST**

BO010131

TAT

Project Manager: *Owen Kottredge* Phone #: *(916)638-2085*

Company/Address: *316A Grand Camp Dr, Arcata  
Rancho Cordova, CA 95670* FAX #: *8385  
(916)638-2085*

Project Number: *D495-967* P.O.#: Project Name: *Former Beacon # 546*

Project Location: *29705 Mission Blvd  
Hayward, CA* Sampler Signature: *[Signature]*

**ANALYSIS REQUEST**

| Sample ID     | Sampling |      | Container |        |          |            | Method Preserved |                  |     |      | Matrix |      | W.E.T. (✓) | TOTAL (✓) | RUSH SERVICE (12 hr) or (24 hr) | EXPEDITED SERVICE (48 hr) or (1 wk) | STANDARD SERVICE (2wk) |  |  |
|---------------|----------|------|-----------|--------|----------|------------|------------------|------------------|-----|------|--------|------|------------|-----------|---------------------------------|-------------------------------------|------------------------|--|--|
|               | DATE     | TIME | VOA       | SLEEVE | 1L GLASS | 1L PLASTIC | HCl              | HNO <sub>3</sub> | ICE | NONE | WATER  | SOIL |            |           |                                 |                                     |                        |  |  |
| DE-1I (18.5') | 7/31/96  | 0900 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| DE-1J (15')   | 7/31/96  | 1035 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| DE-1K (21')   | 7/31/96  | 1050 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| DE-1L (10')   | 7/31/96  | 1215 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| DE-1M (10')   | 7/31/96  | 1235 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| E-1N (22')    | 7/31/96  | 1220 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| E-1O (12')    | 7/31/96  | 1310 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| E-1P (12')    | 7/31/96  | 1330 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| E-1Q (12')    | 7/31/96  | 1335 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| E-1R (12')    | 7/31/96  | 1340 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |
| -1S (12')     | 7/31/96  | 1515 |           | I      |          |            |                  |                  | X   |      | X      |      | X          |           |                                 |                                     |                        |  |  |

Relinquished by: *[Signature]* Date Time: *7/31/96* Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date Time: Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date Time: *7/31/96* Received by Laboratory: *[Signature]*

Remarks: *Mobile Lab On-site.*

*Samples rec'd throughout day by mobile lab*  
*JA 7-31-96*

Bill To: *T. Fox* *2300 Clayton Dr.*  
*Ultramary Inc.*

**Excelchem**  
Environmental Labs

500 Giuseppe Court, Suite 9  
Roseville, Ca. 95678  
(916) 773-3664

**CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST**

Project Manager: *Owen Kittredge* Phone #: *(916) 638-2085*

Company/Address: *3104 Gold Camp Dr, Ste 200* FAX #: *(916) 638-8385*

Project Number: *D095-967* P.O.#: Project Name: *Former Beacon #546*

Project Location: *29705 Mission Blvd Hayward, CA* Sampler Signature: *[Signature]*

**ANALYSIS REQUEST**

**TAT**

| Sample ID  | Sampling |      | Container |              |          |            | Method Preserved |      |     |      | Matrix |      | BTEX (602/8020) | BTEX/TPH as Gasoline (602/8020/8015) | TPH as Diesel (8015) | TPH as Oil (8015) | Total Oil & Grease (5520 B/E,F) | Total Oil & Grease IR (5520 B/E,F,C) | 96 - Hour Fish Bioassay | EPA 601/8010 | EPA 602/8020 | EPA 615/8150 | EPA 608/8080 - Pesticides | EPA 608/8080-PCBs | EPA 624/8240 | EPA 625/8270 | ORGANIC LEAD | Reactivity, Corrosivity, Ignitibility | W.E.T. (✓) |                 |                                 | RUSH SERVICE (12 hr) or (24 hr) | EXPEDITED SERVICE (48 hr) or (TTT) (wk) | STANDARD SERVICE (2wk) |                        |
|------------|----------|------|-----------|--------------|----------|------------|------------------|------|-----|------|--------|------|-----------------|--------------------------------------|----------------------|-------------------|---------------------------------|--------------------------------------|-------------------------|--------------|--------------|--------------|---------------------------|-------------------|--------------|--------------|--------------|---------------------------------------|------------|-----------------|---------------------------------|---------------------------------|---|------------------------|------------------------|
|            | DATE     | TIME | VOA       | SLEEVE       | 1L GLASS | 1L PLASTIC | HCl              | HNO3 | ICE | NONE | WATER  | SOIL |                 |                                      |                      |                   |                                 |                                      |                         |              |              |              |                           |                   |              |              |              |                                       | TOTAL (✓)  | CAM - 17 Metals | EPA - Priority Pollutant Metals |                                 |   |                        | LEAD (7420/7421/239,2) |
| -1 E,F,G,H | 7/31/96  | 1510 |           | <del>4</del> |          |            |                  |      | X   |      |        | X    | X               | X                                    |                      |                   |                                 |                                      |                         |              |              |              |                           |                   |              |              |              |                                       |            |                 |                                 |                                 |   |                        |                        |
| -2 E,F,G,H | 7/31/96  | 1545 |           | <del>4</del> |          |            |                  |      | X   |      |        | X    | X               | X                                    |                      |                   |                                 |                                      |                         |              |              |              |                           |                   |              |              |              |                                       |            |                 |                                 |                                 |   |                        |                        |
| -3 E,F,G,H | 7/31/96  | 1610 |           | 4            |          |            |                  |      | X   |      |        | X    | X               | X                                    |                      |                   |                                 |                                      |                         |              |              |              |                           |                   |              |              |              |                                       |            |                 |                                 |                                 |   |                        |                        |
| -3 J,K,L   | 7/31/96  | 1610 |           | 4            |          |            |                  |      | X   |      |        | X    | X               | X                                    |                      |                   |                                 |                                      |                         |              |              |              |                           |                   |              |              |              |                                       |            |                 |                                 |                                 |   |                        |                        |
| -6 A,B,C,D | 7/31/96  | 1730 |           | 4            |          |            |                  |      | X   |      | X      | X    | X               | X                                    |                      |                   |                                 |                                      |                         |              |              |              |                           |                   |              |              |              |                                       |            |                 |                                 |                                 |   |                        |                        |

Relinquished by: *[Signature]* Date Time: *7/31/96* Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date Time: Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date Time: *7/31/96* Received by Laboratory: *[Signature]*

Remarks: *Samples rec'd throughout day by Mobil Lab. 7-31-96*

Bill To: *Terry Fox Ultramar, Inc.*