

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICERECEIVED  
SEP - 3 1999OIL CON. DIV.  
DIST. 3PIT REMEDIATION AND CLOSURE REPORTOperator: Burlington Resources Telephone: (505) 326-9700Address: 3535 E. 30<sup>th</sup> Street Farmington, NM 87401Facility Or: Canyon Largo Unit # 140  
Well NameLocation: Unit or Qtr/Qtr Sec A Sec 9 T 25N R 6W County Rio ArribaPit Type: Separator \_\_\_\_\_ Dehydrator \_\_\_\_\_ Other AbandonedLand Type: BLM X State \_\_\_\_\_ Fee \_\_\_\_\_ Other \_\_\_\_\_Pit Location: Pit dimensions: Length 10 ft width 10 ft depth 2 ft  
(Attach diagram)Reference: wellhead X other \_\_\_\_\_Footage from reference: 50 ftDirection from reference: 0 Degrees X East North \_\_\_\_\_  
West South \_\_\_\_\_

|                                            |          |                       |             |          |
|--------------------------------------------|----------|-----------------------|-------------|----------|
| Depth to Ground Water: <u>&gt;100 feet</u> | _____    | Less than 50 feet     | (20 points) |          |
| (vertical distance from                    | _____    | 50 ft to 99 feet      | (10 points) |          |
| contaminants to seasonal                   | <u>X</u> | Greater than 100 feet | (0 points)  | <u>0</u> |
| highwater elevation of                     |          |                       |             |          |
| ground water)                              |          |                       |             |          |

|                                          |          |     |             |          |
|------------------------------------------|----------|-----|-------------|----------|
| Wellhead Protection Area:                | _____    | Yes | (20 points) |          |
| (less than 200 feet from a private       | <u>X</u> | No  | (0 points)  | <u>0</u> |
| domestic water source, or: less than     |          |     |             |          |
| 1000 feet from all other water sources). |          |     |             |          |

|                                        |          |                        |             |          |
|----------------------------------------|----------|------------------------|-------------|----------|
| Distance to Surface Water:             | _____    | Less than 200 feet     | (20 points) |          |
| (Horizontal distance to perennial      | _____    | 200 feet to 1000 feet  | (10 points) |          |
| lakes, ponds, rivers, streams, creeks, | <u>X</u> | Greater than 1000 feet | (0 points)  | <u>0</u> |
| irrigation canals and ditches.)        |          |                        |             |          |

P:\pits\Prr-C@.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 5/18/99

Date Completed: 5/18/99

Excavation           

Approx. cubic yards 0

Landfarmed           

Insitu Bioremediation           

Other                                   

Remediation Method:

Onsite           

Offsite                                   

(Check all appropriate  
sections)

General Description of Remedial Action : On 5/18/99, the pit was sampled at a depth of 3 feet, where  
bedrock was encountered. A soil sample was obtained from the center bottom of the pit at  
a depth of 3 feet (1 foot below pit bottom) utilizing U.S.E.P.A. protocol and sent to  
Acculabs Inc. for GRO/DRO analysis. Results provided concentrations below NMOCD  
guidelines.

Ground Water Encountered: No X Yes            Depth           

Final Pit:

Closest Sampling:  
(if multiple samples,  
attach sample results

and diagram of sample  
locations and depths)

Sample location Center Bottom

Sample depth 3 feet (Bedrock)

Sample date 5/18/99

Sample time 12:40

Sample Results

Benzene(ppm)           

Total BTEX (PPM)           

Field Headspace (ppm) 5.1

TPH <6.0

Ground Water Sample: Yes            No X (if yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETED TO THE BEST  
OF MY KNOWLEDGE AND BELIEF.

DATE 7/1/99

PRINTED NAME Ed Hasely

SIGNATURE *Ed Hasely*

and TITLE Sr. Staff Environmental Representative

Client: Burlington ResourcesDate Started: May 18, 1989 Date Completed: May 18, 1989

| <b>Location :</b> Canyon Largo Unit # 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             | <b>Overview of Location and Sampling :</b>                                                                                                                                                                     |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|---|-------------|-----|---|---------|--|---|--|--|---|--|--|---|--|--|---|--|--|---|--|--|---|--|--|---|--|--|----|--|--|----|--|--|----|--|--|-------------------------------------|--|
| <b>Quad :</b> A <b>Section :</b> 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>Range :</b> 6W <b>Township:</b> 31N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>Pit :</b> Abandoned<br><b>Reference :</b> 50' E of wellhead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>Initial Size :</b> 10' x 10' x 2' deep<br><b>Final Size :</b> 10' x 10' x 2' deep<br><b>Yds. Excavated :</b> 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Sample #</th><th>Location</th><th>OVM</th></tr></thead><tbody><tr><td>1</td><td>Cr Btm @ 3'</td><td>5.1</td></tr><tr><td>2</td><td>Bedrock</td><td></td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>5</td><td></td><td></td></tr><tr><td>6</td><td></td><td></td></tr><tr><td>7</td><td></td><td></td></tr><tr><td>8</td><td></td><td></td></tr><tr><td>9</td><td></td><td></td></tr><tr><td>10</td><td></td><td></td></tr><tr><td>11</td><td></td><td></td></tr><tr><td>12</td><td></td><td></td></tr></tbody></table> |             | Sample #                                                                                                                                                                                                       | Location | OVM | 1 | Cr Btm @ 3' | 5.1 | 2 | Bedrock |  | 3 |  |  | 4 |  |  | 5 |  |  | 6 |  |  | 7 |  |  | 8 |  |  | 9 |  |  | 10 |  |  | 11 |  |  | 12 |  |  | <b>Pit Profile : East to West :</b> |  |
| Sample #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Location    | OVM                                                                                                                                                                                                            |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cr Btm @ 3' | 5.1                                                                                                                                                                                                            |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Bedrock     |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>Depth to Groundwater:</b> >100'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>Nearest Water Source:</b> >1000'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>Nearest Surface Water:</b> >1000'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>NMOCDC Ranking Score:</b> 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | <b>Comments :</b> Soil is moist, brown, clay loam. No H-C staining or odor.<br>Bedrock refusal at 3 feet.<br><br>Soil sample was taken at center bottom at 3 feet and sent to Acculabs for a GRO/DRO analysis. |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>TPH Closure Standard:</b> 5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>Pit Profile : North to South :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
| <b>Pit Profile : East to West :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                |          |     |   |             |     |   |         |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |    |  |  |    |  |  |    |  |  |                                     |  |



# Acculabs Inc.

**Durango**

75 Suttle Street, Durango CO 81301 ■ 970-247-4220 ■ Fax 247-4227

Cimarron Environmental Services  
PO Box 3235  
Farmington, NM 87401  
Attention: Frank McDonald

**Acculabs I.D.: 07-905-045-09**

Date Received: 05/20/99

Date Reported: 05/27/99

QC Batches:

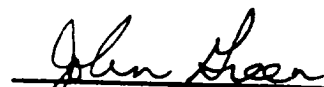
**PROJECT NAME:** Burlington  
**PROJECT NUMBER:** 0  
**SAMPLE I.D.:** Canyon Largo #140

Sample Date: 5/17/99, 05/19/9

Sample Matrix: Soil

## RESULTS

| PARAMETER | METHOD | REPORT<br>LIMIT | RESULT       | DIL | UNITS | DATE<br>ANALYZED | ANALYST |
|-----------|--------|-----------------|--------------|-----|-------|------------------|---------|
| GRO/DRO   | 8015   |                 | See Attached |     |       |                  |         |

  
John Green, Laboratory Manager

Tempe ■ Tucson ■ Flagstaff ■ Davis/Sacramento ■ Durango ■ Golden ■ Sparks/Reno



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 20048

20048-09

Sample: 07-905-045-09

From : (Proj. # 07-905-045)

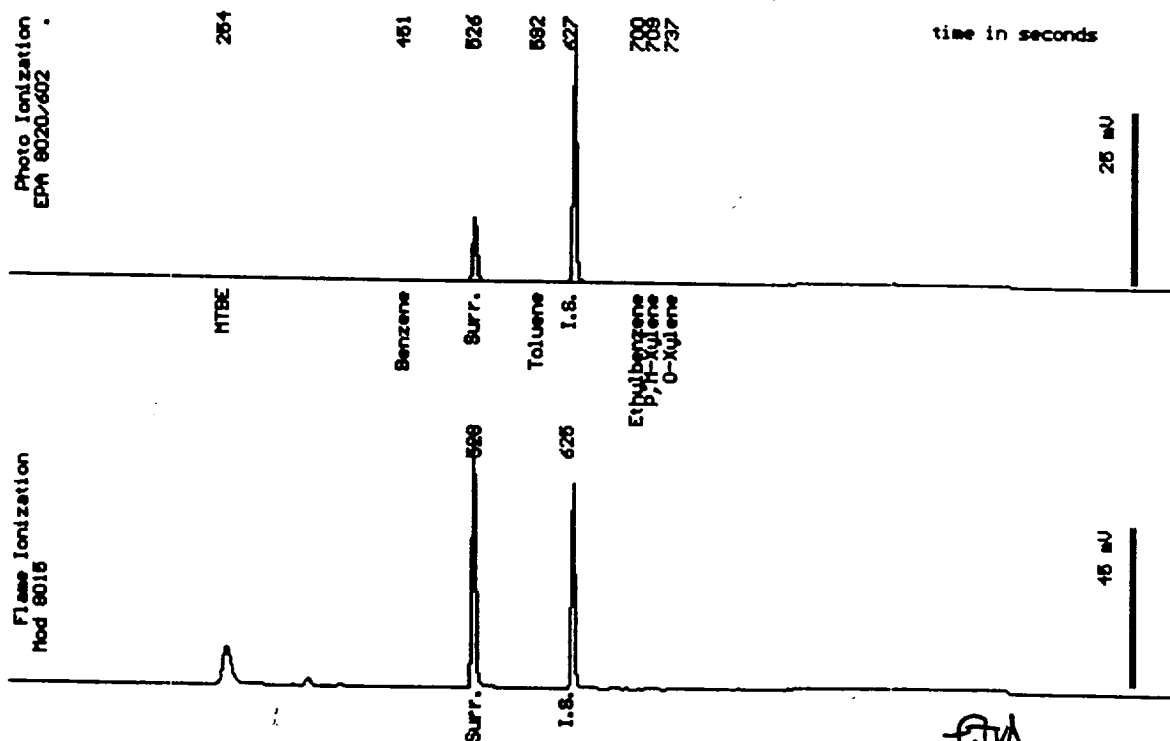
Sampled : / /

Dilution : 1:1

Matrix : Soil

Run Log : 2180N

| Parameter          | (MRL) $\mu\text{g}/\text{kg}$ | Measured Value $\mu\text{g}/\text{kg}$ |
|--------------------|-------------------------------|----------------------------------------|
| TPH as Gasoline    | (1.0)                         | <1.0                                   |
| Surrogate Recovery |                               | 101 %                                  |



Date Analyzed: 05-26-99  
Column: 0.53mm X 60m Restek Rtx-1301

Stewart Rodolsky  
Senior Chemist



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 20048

20048-09

Sample: 07-905-045-09

From : (Proj. # 07-905-045)

Sampled : / /

Extracted: 05/24/99

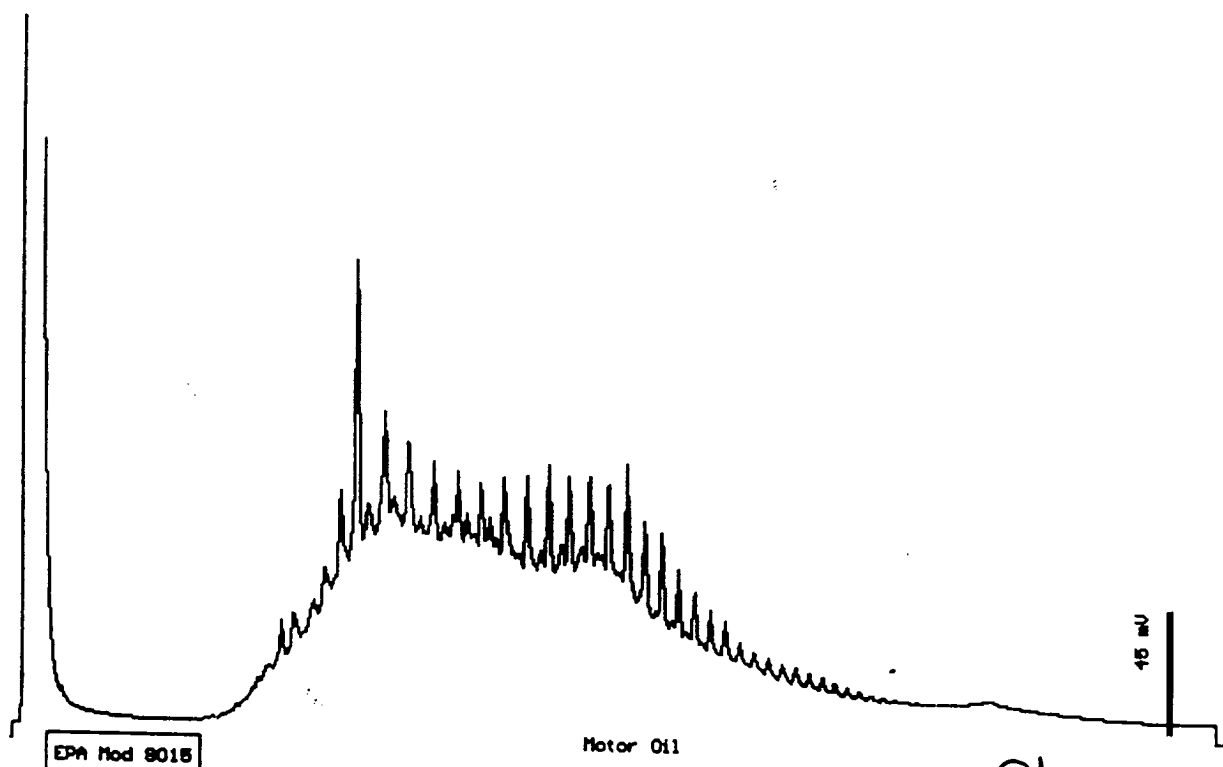
Dilution : 1:5

Matrix : Soil

QC Batch : DS990506

Run Log : 7437H

| Parameter     | (MRL) mg/kg | Measured Value mg/kg |
|---------------|-------------|----------------------|
| TPH as Diesel | (5.0)       | <5.0                 |



Date: 05-24-99 Time: 23:04:38  
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky  
Senior Chemist

Tempe ■ Tucson ■ Flagstaff ■ Davis/Sacramento ■ Durango ■ Golden ■ Sparks/Reno

Acculabs Inc.

May 25, 1999

QC Report  
TPH Diesel by 8015 Mod

QC Batch: DS990506

Matrix: Soil

**Spike and Spike Duplicate Results**

| Parameter     | Matrix<br>Spike (%Rec) | Matrix<br>Spike Dup. (%Rec) | RPD<br>% |
|---------------|------------------------|-----------------------------|----------|
| TPH as Diesel | 101                    | 103                         | 2        |

**Laboratory Control Spike**

| Parameter     | Laboratory Control<br>Spike (%Rec) |
|---------------|------------------------------------|
| TPH as Diesel | 99                                 |

**Method Blank**

| Parameter        | MDL(mg/Kg) | Measured<br>Value(mg/Kg) |
|------------------|------------|--------------------------|
| TPH as Diesel    | (1.0)      | <1.0                     |
| TPH as Motor Oil | (10)       | <10                      |

  
\_\_\_\_\_  
Tom Kwoke  
Lab Director

Acculabs Inc.

May 25, 1999

Sample Log 20048

QC Report for EPA 8020 & Modified EPA 8015

Run Log : 2180K

From : (Proj. # 07-905-045)

Sample(s) Received : 05/20/99

| Parameter       | Matrix Spike<br>% Recovery | Matrix Spike<br>Duplicate<br>% Recovery | RPD * |
|-----------------|----------------------------|-----------------------------------------|-------|
| Benzene         | 105                        | 103                                     | 2     |
| Ethylbenzene    | 98                         | 96                                      | 2     |
| TPH as Gasoline | 102                        | 104                                     | 2     |

\* RPD = Relative Percent Difference

| Parameter    | Laboratory Control Sample<br>% Recovery |
|--------------|-----------------------------------------|
| Benzene      | 99                                      |
| Ethylbenzene | 97                                      |
| Gasoline     | 98                                      |

| Parameter       | Method Blank |
|-----------------|--------------|
| Benzene         | <0.005 mg/Kg |
| Toluene         | <0.005 mg/Kg |
| Ethylbenzene    | <0.005 mg/Kg |
| Total Xylenes   | <0.005 mg/Kg |
| TPH as Gasoline | <1.0 mg/kg   |

  
Tom Kwoka  
Lab Director

