

ASARCO EL PASO COPPER SMELTER  
PHASE II REMEDIAL INVESTIGATION REPORT  
EL PASO, TEXAS

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JUL 10 2000

REMEDIATION DIVISION  
Corrective Action Section

Prepared For:

**ASARCO**

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consulting scientists, engineers and contractors

VOLUME  
III of IV

July 2000



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REMEDIATION DIVISION  
Corrective Action Section

SWR # 31235

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## APPENDIX I

### SOIL AND GROUNDWATER LABORATORY REPORTS



## **APPENDIX I**

### **SOIL AND GROUNDWATER LABORATORY REPORTS**





## APPENDIX I

### SOIL AND GROUNDWATER LABORATORY REPORTS

#### TABLE OF CONTENTS

|  |             |
|--|-------------|
| LABORATORY REPORTS FOR WATER SAMPLES,<br>SUMMER 1998 | SECTION I-1 |
| LABORATORY REPORTS FOR WATER SAMPLES,<br>FALL 1998   | SECTION I-2 |
| LABORATORY REPORTS FOR WATER SAMPLES,<br>WINTER 1999 | SECTION I-3 |
| LABORATORY REPORTS FOR WATER SAMPLES,<br>SPRING 1999 | SECTION I-4 |
| LABORATORY REPORTS FOR WATER SAMPLES,<br>SUMMER 1999 | SECTION I-5 |
| LABORATORY REPORTS FOR WATER SAMPLES,<br>FALL 1999   | SECTION I-6 |
| LABORATORY REPORTS FOR WATER SAMPLES,<br>WINTER 2000 | SECTION I-7 |
| LABORATORY REPORTS FOR SOIL SAMPLES                  | SECTION I-8 |



## **SECTION I-1**

### **LABORATORY REPORTS FOR WATER SAMPLES,**

**SUMMER 1998**



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981626

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981626-1 | 05-AUG-98      | EPRI-9808-100 | AS(D)     | .14   | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 105.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 242.  | ppm       | LV      | 17-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 11-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 1970. | umhos     | BD      | 11-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.0   | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | 1.4   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 271.  | ppm CaCO3 | DC      | 11-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 12.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 27.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 303.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050 | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.8   | pH        | DC      | 11-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 437.  | ppm       | LV      | 17-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 1345. | ppm       | JH      | 11-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 29.   | ppm       | MO      | 11-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .025  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
| L981626-2 | 05-AUG-98      | EPRI-9808-101 | AS(D)     | .056  | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 76.   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 353.  | ppm       | LV      | 17-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 11-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 2900. | umhos     | BD      | 11-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.6   | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .86   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 691.  | ppm CaCO3 | DC      | 11-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 9.2   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 30.   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 594.  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050 | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981626

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981626-2 | 05-AUG-98      | EPRI-9808-101 | PH        | 7.8   | pH        | DC      | 11-AUG-98     | 150.1     |        |
|           |                |               | SE(D)     | <.005 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 396.  | ppm       | LV      | 17-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 1991. | ppm       | JH      | 11-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 12.   | ppm       | MO      | 11-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .028  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
| L981626-3 | 05-AUG-98      | EPRI-9808-102 | AS(D)     | .024  | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 328.  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 897.  | ppm       | LV      | 17-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 11-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 6720. | umhos     | BD      | 11-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.4   | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 380.  | ppm CaCO3 | DC      | 11-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 31.   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 100.  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1414. | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 3.2   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 8.0   | pH        | DC      | 11-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .034  | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 2258. | ppm       | LV      | 17-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 5241. | ppm       | JH      | 11-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 4.4   | ppm       | MO      | 11-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .046  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
| L981626-4 | 05-AUG-98      | EPRI-9808-103 | AS(D)     | .065  | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 106.  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 365.  | ppm       | LV      | 17-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 11-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 2800. | umhos     | BD      | 11-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.7   | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

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Batch No: L981626

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|-----------|----------------|---------------|-----------|--------|-------|----------|---------------|-----------|--------|
| L981626-4 | 05-AUG-98      | EPRI-9808-103 | FE(D)     | 1.4    | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 243.   | ppm   | CaCO3 DC | 11-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 9.5    | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 34.    | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 506.   | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050  | ppm   | LV       | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 14-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.8    | pH    | DC       | 11-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | <.005  | ppm   | KB       | 14-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 767.   | ppm   | LV       | 17-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 1938.  | ppm   | JH       | 11-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 8.9    | ppm   | MO       | 11-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .024   | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
| L981626-5 | 06-AUG-98      | EPRI-9808-108 | AS(D)     | .87    | ppm   | KB       | 14-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 520.   | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .038   | ppm   | KB       | 14-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 765.   | ppm   | LV       | 17-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm   | CaCO3 DC | 11-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 10210. | umhos | BD       | 11-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025  | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.0    | ppm   | LV       | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10   | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 308.   | ppm   | CaCO3 DC | 11-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 57.    | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 292.   | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1664.  | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 163.   | ppm   | LV       | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 14-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.6    | pH    | DC       | 11-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .35    | ppm   | KB       | 14-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 4783.  | ppm   | LV       | 17-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 9259.  | ppm   | JH       | 11-AUG-98     | 7         | 160.1  |
| L981626-6 | 06-AUG-98      | EPRI-9808-116 | TSS       | 129.   | ppm   | MO       | 11-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .096   | ppm   | JT       | 12-AUG-98     | 180       | 6010   |
|           |                |               | AS(D)     | .26    | ppm   | KB       | 14-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 417.   | ppm   | JT       | 12-AUG-98     | 180       | 6010   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

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Batch No: L981626

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981626-6 | 06-AUG-98      | EPRI-9808-116 | CD(D)     | <.005 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 555.  | ppm       | LV      | 17-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 11-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 6300. | umhos     | BD      | 11-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.0   | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 396.  | ppm CaCO3 | DC      | 11-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 22.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 163.  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1154. | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 79.   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.6   | pH        | DC      | 11-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | 2.5   | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 2426. | ppm       | LV      | 17-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 5359. | ppm       | JH      | 11-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 212.  | ppm       | MO      | 11-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .025  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
| L981626-7 | 06-AUG-98      | EPRI-9808-115 | AS(D)     | .26   | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 39.   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 339.  | ppm       | LV      | 17-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | 15.   | ppm CaCO3 | DC      | 11-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 3070. | umhos     | BD      | 11-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.9   | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 145.  | ppm CaCO3 | DC      | 11-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 19.   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 21.   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 681.  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 14.   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 8.7   | pH        | DC      | 11-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .24   | ppm       | KB      | 14-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981626

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L981626-7 | 06-AUG-98      | EPRI-9808-115 | SO4=      | 939.   | ppm       | LV      | 17-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 2129.  | ppm       | JH      | 11-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 23.    | ppm       | MO      | 11-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .028   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
| L981626-8 | 06-AUG-98      | EPRI-9808-106 | AS(D)     | 2.5    | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 211.   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005  | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 222.   | ppm       | LV      | 17-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 11-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 3590.  | umhos     | BD      | 11-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.0    | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .11    | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 383.   | ppm CaCO3 | DC      | 11-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 35.    | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 54.    | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 645.   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 4.3    | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.7    | pH        | DC      | 11-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .084   | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1326.  | ppm       | LV      | 17-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 2867.  | ppm       | JH      | 11-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 3.9    | ppm       | MO      | 11-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .032   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
| L981626-9 | 06-AUG-98      | EPRI-9808-105 | AS(D)     | 36.    | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 359.   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .70    | ppm       | KB      | 14-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 814.   | ppm       | LV      | 17-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 11-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 11220. | umhos     | BD      | 11-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025  | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.4    | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10   | ppm       | JT      | 12-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 340.   | ppm CaCO3 | DC      | 11-AUG-98     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

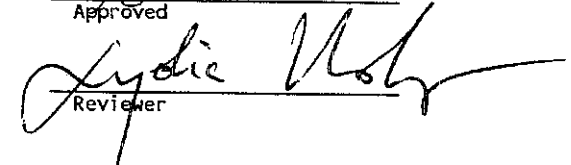
El Paso

Water and Solid Waste (Project 3220)

Batch No: L981626

| LAB NO    | DATE      |  | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST | DATE      |      | HOLD  | METHOD |
|-----------|-----------|--|---------------|-----------|-------|-------|---------|-----------|------|-------|--------|
|           | COLLECTED |  |               |           |       |       |         | ANALYZED  | DAYS |       |        |
| L981626-9 | 06-AUG-98 |  | EPRI-9808-105 | K         | 83.   | ppm   | JT      | 12-AUG-98 | 180  | 6010  |        |
|           |           |  |               | MG        | 70.   | ppm   | JT      | 12-AUG-98 | 180  | 6010  |        |
|           |           |  |               | NA        | 2468. | ppm   | JT      | 14-AUG-98 | 180  | 6010  |        |
|           |           |  |               | NO2/NO3   | 83.   | ppm   | LV      | 21-AUG-98 | 28   | 353.2 |        |
|           |           |  |               | PB(D)     | <.003 | ppm   | KB      | 14-AUG-98 | 180  | 6020  |        |
|           |           |  |               | PH        | 7.7   | pH    | DC      | 11-AUG-98 |      | 150.1 |        |
|           |           |  |               | SE(D)     | 5.4   | ppm   | KB      | 14-AUG-98 | 180  | 6020  |        |
|           |           |  |               | SO4=      | 5322. | ppm   | LV      | 17-AUG-98 | 28   | 9036  |        |
|           |           |  |               | TDS       | 9829. | ppm   | JH      | 11-AUG-98 | 7    | 160.1 |        |
|           |           |  |               | TSS       | 7.3   | ppm   | MO      | 11-AUG-98 |      | 160.2 |        |
|           |           |  |               | ZN(D)     | .10   | ppm   | JT      | 12-AUG-98 | 180  | 6010  |        |

PH is field parameter therefore holding time cannot be met by the lab.

  
Approved  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981032

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE   | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|---------|------------|---------|---------------|-----------|--------|
| WG981032-1 |                | Matrix Spike       | AS(D)     | SR>4xSA | % RECOVERY | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | CD(D)     | 96      | % RECOVERY | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 105     | % RECOVERY | LV      | 17-AUG-98     | 325.2     |        |
|            |                |                    | CR(D)     | 100     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | 111     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | F-        | 97      | % RECOVERY | LV      | 21-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | 104     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 104     | % RECOVERY | LV      | 21-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | 97      | % RECOVERY | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | SR>4xSA | % RECOVERY | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | 105     | % RECOVERY | LV      | 17-AUG-98     | 9036      |        |
|            |                |                    | ZN(D)     | 106     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
| WG981032-2 |                | Prep Blank         | AS(D)     | <.005   | ppm        | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | CA        | <1.0    | ppm        | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | CD(D)     | <.005   | ppm        | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | CL-       | <1.0    | ppm        | LV      | 17-AUG-98     | 325.2     |        |
|            |                |                    | CO3       | <1.0    | ppm CaCO3  | DC      | 11-AUG-98     | 310.1     |        |
|            |                |                    | COND.     | <5.0    | umhos      | BD      | 11-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | <.010   | ppm        | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | <.025   | ppm        | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | F-        | <.10    | ppm        | LV      | 21-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | <.10    | ppm        | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | HCO3      | <1.0    | ppm CaCO3  | DC      | 11-AUG-98     | 310.1     |        |
|            |                |                    | K         | <5.0    | ppm        | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | MG        | <1.0    | ppm        | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | NA        | <5.0    | ppm        | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050   | ppm        | LV      | 21-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | <.003   | ppm        | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | <.005   | ppm        | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0    | ppm        | LV      | 17-AUG-98     | 9036      |        |
|            |                |                    | TDS       | <10.    | ppm        | JH      | 11-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0    | ppm        | MO      | 11-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | <.020   | ppm        | JT      | 12-AUG-98     | 6010      |        |
| WG981032-3 |                | Laboratory Control | AS(D)     | 98      | % RECOVERY | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | CA        | 104     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | CD(D)     | 98      | % RECOVERY | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 101     | % RECOVERY | LV      | 17-AUG-98     | 325.2     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981032

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE   | UNITS      | ANALYST | DATE ANALYZED | HOED DAYS | METHOD |
|------------|----------------|--------------------|-----------|---------|------------|---------|---------------|-----------|--------|
| WG981032-3 |                | Laboratory Control | COND.     | 100     | % RECOVERY | BD      | 11-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | 102     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | 106     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | F-        | 95      | % RECOVERY | LV      | 21-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | 96      | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | HCO3      | 101     | % RECOVERY | DC      | 11-AUG-98     | 310.1     |        |
|            |                |                    | K         | 93      | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | MG        | 101     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | NA        | 104     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 104     | % RECOVERY | LV      | 21-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | 103     | % RECOVERY | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | 103     | % RECOVERY | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | 108     | % RECOVERY | LV      | 17-AUG-98     | 9036      |        |
|            |                |                    | TDS       | 100     | % RECOVERY | JH      | 11-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | 101     | % RECOVERY | MO      | 11-AUG-98     | 160.2     |        |
| WG981032-4 |                | Duplicate          | ZN(D)     | 100     | % RECOVERY | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | AS(D)     | 1.2     | % RPD      | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | CA        | 5.6     | % RPD      | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | CD(D)     | <1      | % RPD      | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 4.1     | % RPD      | LV      | 17-AUG-98     | 325.2     |        |
|            |                |                    | CO3       | <1      | % RPD      | DC      | 11-AUG-98     | 310.1     |        |
|            |                |                    | COND.     | <1      | % RPD      | BD      | 11-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | <1      | % RPD      | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | <1      | % RPD      | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | F-        | 2.9     | % RPD      | LV      | 21-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | 6.9     | % RPD      | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | HCO3      | <1      | % RPD      | DC      | 11-AUG-98     | 310.1     |        |
|            |                |                    | K         | 19.     | % RPD      | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | MG        | 3.6     | % RPD      | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | NA        | 2.7     | % RPD      | JT      | 12-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <1      | % RPD      | LV      | 21-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | <1      | % RPD      | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | <1      | % RPD      | KB      | 14-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | <1      | % RPD      | LV      | 17-AUG-98     | 9036      |        |
|            |                |                    | TDS       | 2.5     | % RPD      | JH      | 11-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | <1      | % RPD      | MO      | 11-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | +/-prdl | % RPD      | JT      | 12-AUG-98     | 6010      |        |

## ASARCO TECHNICAL SERVICES CENTER


## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981032

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-------|---------|---------------|-----------|--------|
| WG981032-5 |                | Practical Quantitation Limit | AS(D)     | .005  | ppm   |         |               |           | 6020   |
|            |                |                              | CA        | 1.0   | ppm   |         |               |           | 6010   |
|            |                |                              | CD(D)     | .005  | ppm   |         |               |           | 6020   |
|            |                |                              | CL-       | 1.0   | ppm   |         |               |           | 325.2  |
|            |                |                              | CO3       | 1.0   | ppm   | CaCO3   |               |           | 310.1  |
|            |                |                              | COND.     | 5.0   | umhos |         |               |           | 120.1  |
|            |                |                              | CR(D)     | .010  | ppm   |         |               |           | 6010   |
|            |                |                              | CU(D)     | .025  | ppm   |         |               |           | 6010   |
|            |                |                              | F-        | .10   | ppm   |         |               |           | 340.2  |
|            |                |                              | FE(D)     | .10   | ppm   |         |               |           | 6010   |
|            |                |                              | HCO3      | 1.0   | ppm   | CaCO3   |               |           | 310.1  |
|            |                |                              | K         | 5.0   | ppm   |         |               |           | 6010   |
|            |                |                              | MG        | 1.0   | ppm   |         |               |           | 6010   |
|            |                |                              | NA        | 5.0   | ppm   |         |               |           | 6010   |
|            |                |                              | NO2/NO3   | .050  | ppm   |         |               |           | 353.2  |
|            |                |                              | PB(D)     | .003  | ppm   |         |               |           | 6020   |
|            |                |                              | SE(D)     | .005  | ppm   |         |               |           | 6020   |
|            |                |                              | SO4=      | 2.0   | ppm   |         |               |           | 9036   |
|            |                |                              | TDS       | 10.   | ppm   |         |               |           | 160.1  |
|            |                |                              | TSS       | 1.0   | ppm   |         |               |           | 160.2  |
|            |                |                              | ZN(D)     | .020  | ppm   |         |               |           | 6010   |

  
 Approved

  
 Reviewer

[illegible]

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190

P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

HFORM-1.

Computer Dept. at address at top of page

Split Samples:  
☐ Accepted ☐ Declined

25

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981671

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981671-1 | 10-AUG-98      | EPRI-9808-107 | AS(D)     | .009  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 99.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 272.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 2810  | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | .94   | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 316.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 8.4   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 34.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 535.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 13.   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.9   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .17   | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 715.  | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 1987. | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 282.  | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .031  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-2 | 10-AUG-98      | EPRI-9808-124 | AS(D)     | 3.2   | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 193.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 410.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 4850. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 4.6   | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 350.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 107.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 92.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 920.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 12.   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981671

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981671-2 | 10-AUG-98      | EPRI-9808-124 | PH        | 7.4   | pH        | DC      | 20-AUG-98     | 150.1     |        |
|           |                |               | SE(D)     | .32   | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1643. | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 3678. | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | <1.0  | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .046  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-3 | 10-AUG-98      | EPRI-9808-185 | AS(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CA        | <1.0  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 1.2   | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | <5.0  | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | <.10  | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 1.0   | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | <5.0  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | <1.0  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NA        | <2.0  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050 | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 6.0   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | <1.0  | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 19.   | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | <1.0  | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-4 | 10-AUG-98      | EPRI-9808-184 | AS(D)     | 3.2   | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 187.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 427.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 4850. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 4.6   | ppm       | LV      | 21-AUG-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981671

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981671-4 | 10-AUG-98      | EPRI-9808-184 | FE(D)     | <.10  | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 351.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 104.  | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 91.   | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 859.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 13.   | ppm   | LV       | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.4   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .32   | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1560. | ppm   | LV       | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 3717. | ppm   | JH       | 17-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | <1.0  | ppm   | MO       | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .059  | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
| L981671-5 | 10-AUG-98      | EPRI-9808-129 | AS(D)     | .040  | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 383.  | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .005  | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 687.  | ppm   | LV       | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 9540. | umhos | BD       | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.8   | ppm   | LV       | 21-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 264.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 25.   | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 124.  | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 2135. | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 71.   | ppm   | LV       | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.9   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .60   | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 3826. | ppm   | LV       | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 8077. | ppm   | JH       | 17-AUG-98     | 7         | 160.1  |
| L981671-6 | 10-AUG-98      | EPRI-9808-127 | TSS       | 6.7   | ppm   | MO       | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .067  | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|           |                |               | AS(D)     | 1.2   | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 204.  | ppm   | JT       | 14-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981671

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981671-6 | 10-AUG-98      | EPRI-9808-127 | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 405.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 4840. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 3.0   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 343.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 66.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 84.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 881.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 8.6   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.7   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .36   | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1708. | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 3665. | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | <1.0  | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .069  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-7 | 10-AUG-98      | EPRI-9808-128 | AS(D)     | .020  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 251.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 928.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 8470. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.2   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 452.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 39.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 151.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1740. | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 13.   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.7   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .24   | ppm       | KB      | 25-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981671

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981671-7 | 10-AUG-98      | EPRI-9808-128 | SO4=      | 2759. | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 6466. | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 6.1   | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .066  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-8 | 10-AUG-98      | EPRI-9808-125 | AS(D)     | .007  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 561.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 1171. | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 8700. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.6   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .13   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 244.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 18.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 215.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1427. | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 57.   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.7   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .24   | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 2931. | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 6865. | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 1.2   | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .055  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-9 | 10-AUG-98      | EPRI-9808-131 | AS(D)     | 11.   | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 591.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .007  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 606.  | ppm       | LV      | 20-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 8130. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 3.4   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 439.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981671

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981671-9  | 10-AUG-98      | EPRI-9808-131 | K         | 58.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 140.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 1551. | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 40.   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.5   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .30   | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 3523. | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 7017. | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 1.7   | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .092  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-10 | 11-AUG-98      | EPRI-9808-161 | AS(D)     | .006  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .005  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 66.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 82.   | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 951.  | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm       | JT      | 14-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .64   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 4.9   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 194.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 8.1   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 15.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 113.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .17   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .004  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.3   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm       | KB      | 25-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 185.  | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 630.  | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981671

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981671-10 | 11-AUG-98      | EPRI-9808-161 | TSS       | 242.  | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | <.020 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | <.020 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-11 | 11-AUG-98      | EPRI-9808-163 | AS(D)     | .005  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 62.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 79.   | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|            |                |               | CO3       | 12.   | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 977.  | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm       | JT      | 14-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .64   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 5.3   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 178.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 7.5   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 14.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 112.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .33   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .004  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.5   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm       | KB      | 25-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 200.  | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 663.  | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 230.  | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | <.020 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .023  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-12 | 11-AUG-98      | EPRI-9808-181 | AS(D)     | .007  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .005  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 63.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981671

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981671-12 | 11-AUG-98      | EPRI-9808-181 | CD(TR)    | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 84.   | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|            |                |               | CO3       | 8.0   | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 976.  | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm       | JT      | 14-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .64   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 4.6   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 175.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 7.0   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 14.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 113.  | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .34   | ppm       | LV      | 21-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .006  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.5   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm       | KB      | 25-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 195.  | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 654.  | ppm       | JH      | 17-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 218.  | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | <.020 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .028  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
| L981671-13 | 11-AUG-98      | EPRI-9808-165 | AS(D)     | .007  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .005  | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 65.   | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm       | KB      | 25-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 85.   | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|            |                |               | CO3       | 9.0   | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 976.  | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm       | JT      | 14-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm       | JT      | 14-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER


## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981671

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981671-13 | 11-AUG-98      | EPRI-9808-165 | F-        | .64   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 4.4   | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 175.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 6.0   | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 14.   | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 117.  | ppm   | JT       | 14-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .32   | ppm   | LV       | 21-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .005  | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.5   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm   | KB       | 25-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 195.  | ppm   | LV       | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 622.  | ppm   | JH       | 17-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 209.  | ppm   | MO       | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | <.020 | ppm   | KB       | 25-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .033  | ppm   | KB       | 25-AUG-98     | 180       | 6020   |

  
Approved  
Reviewer



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981071

| LAB NO     | DATE COLLECTED | DESCRIPTION  | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981071-1 |                | Matrix Spike | AS(D)     | 113   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | AS(TR)    | 98    | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | CD(D)     | 109   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | CD(TR)    | 103   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | CL-       | 89    | % RECOVERY | LV      | 20-AUG-98     | 325.2     |        |
|            |                |              | CR(D)     | 92    | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | CR(TR)    | 86    | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | CU(D)     | 95    | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | CU(TR)    | 89    | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | F-        | 98    | % RECOVERY | VK      | 25-AUG-98     | 340.2     |        |
|            |                |              | FE(D)     | 95    | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | FE(TR)    | 105   | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | NO2/NO3   | 101   | % RECOVERY | LV      | 21-AUG-98     | 353.2     |        |
|            |                |              | PB(D)     | 106   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | PB(TR)    | 102   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | SE(D)     | 115   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | SE(TR)    | 93    | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | SO4=      | 101   | % RECOVERY | LV      | 20-AUG-98     | 9036      |        |
|            |                |              | ZN(D)     | 105   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | ZN(TR)    | 103   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
| WG981071-2 |                | Prep Blank   | AS(D)     | <.005 | ppm        | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | AS(TR)    | <.005 | ppm        | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | CA        | <1.0  | ppm        | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | CD(D)     | <.005 | ppm        | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | CD(TR)    | <.005 | ppm        | KB      | 25-AUG-98     | 6020      |        |
|            |                |              | CL-       | <1.0  | ppm        | LV      | 20-AUG-98     | 325.2     |        |
|            |                |              | CO3       | <1.0  | ppm CaCO3  | DC      | 20-AUG-98     | 310.1     |        |
|            |                |              | COND.     | <5.0  | umhos      | BD      | 17-AUG-98     | 120.1     |        |
|            |                |              | CR(D)     | <.010 | ppm        | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | CR(TR)    | <.010 | ppm        | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | CU(D)     | <.025 | ppm        | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | CU(TR)    | <.025 | ppm        | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | F-        | <.10  | ppm        | VK      | 25-AUG-98     | 340.2     |        |
|            |                |              | FE(D)     | <.10  | ppm        | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | FE(TR)    | <.10  | ppm        | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | HCO3      | <1.0  | ppm CaCO3  | DC      | 20-AUG-98     | 310.1     |        |
|            |                |              | K         | <5.0  | ppm        | JT      | 14-AUG-98     | 6010      |        |
|            |                |              | MG        | <1.0  | ppm        | JT      | 14-AUG-98     | 6010      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981071

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981071-2 |                | Prep Blank         | NA        | <2.0  | ppm        | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050 | ppm        | LV      | 21-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | <.003 | ppm        | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | PB(TR)    | <.003 | ppm        | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | <.005 | ppm        | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | SE(TR)    | <.005 | ppm        | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0  | ppm        | LV      | 20-AUG-98     | 9036      |        |
|            |                |                    | TDS       | <10.  | ppm        | JH      | 17-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0  | ppm        | MO      | 17-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | <.020 | ppm        | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | ZN(TR)    | <.020 | ppm        | KB      | 25-AUG-98     | 6020      |        |
| WG981071-3 |                | Laboratory Control | AS(D)     | 98    | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | AS(TR)    | 105   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | CA        | 104   | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | CD(D)     | 103   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | CD(TR)    | 108   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 99    | % RECOVERY | LV      | 20-AUG-98     | 325.2     |        |
|            |                |                    | COND.     | 101   | % RECOVERY | BD      | 17-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | 102   | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | CR(TR)    | 94    | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | 106   | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | CU(TR)    | 100   | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | F-        | 100   | % RECOVERY | VK      | 25-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | 97    | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | FE(TR)    | 100   | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | HCO3      | 101   | % RECOVERY | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                    | K         | 95    | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | MG        | 102   | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | NA        | 108   | % RECOVERY | JT      | 14-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 102   | % RECOVERY | LV      | 21-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | 103   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | PB(TR)    | 108   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | 103   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | SE(TR)    | 110   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | 100   | % RECOVERY | LV      | 20-AUG-98     | 9036      |        |
|            |                |                    | TDS       | 99    | % RECOVERY | JH      | 17-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | 96    | % RECOVERY | MO      | 17-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | 100   | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981071

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE   | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|---------|------------|---------|---------------|-----------|--------|
| WG981071-3 |                | Laboratory Control           | ZN(TR)    | 113     | % RECOVERY | KB      | 25-AUG-98     | 6020      |        |
| WG981071-4 |                | Duplicate                    | AS(D)     | <1      | % RPD      | KB      | 25-AUG-98     | 6020      |        |
|            |                |                              | AS(TR)    | <1      | % RPD      | KB      | 25-AUG-98     | 6020      |        |
|            |                |                              | CA        | <1      | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | CD(D)     | <1      | % RPD      | KB      | 25-AUG-98     | 6020      |        |
|            |                |                              | CD(TR)    | <1      | % RPD      | KB      | 25-AUG-98     | 6020      |        |
|            |                |                              | CL-       | <1      | % RPD      | LV      | 20-AUG-98     | 325.2     |        |
|            |                |                              | CO3       | <1      | % RPD      | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                              | COND.     | <1      | % RPD      | BD      | 17-AUG-98     | 120.1     |        |
|            |                |                              | CR(D)     | <1      | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | CR(TR)    | <1      | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | CU(D)     | <1      | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | CU(TR)    | <1      | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | F-        | 3.0     | % RPD      | VK      | 25-AUG-98     | 340.2     |        |
|            |                |                              | FE(D)     | <1      | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | FE(TR)    | 5.9     | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | HCO3      | <1      | % RPD      | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                              | K         | +/-prdl | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | MG        | <1      | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | NA        | <1      | % RPD      | JT      | 14-AUG-98     | 6010      |        |
|            |                |                              | NO2/NO3   | <1      | % RPD      | LV      | 21-AUG-98     | 353.2     |        |
|            |                |                              | PB(D)     | <1      | % RPD      | KB      | 25-AUG-98     | 6020      |        |
|            |                |                              | PB(TR)    | +/-prdl | % RPD      | KB      | 25-AUG-98     | 6020      |        |
|            |                |                              | SE(D)     | <1      | % RPD      | KB      | 25-AUG-98     | 6020      |        |
|            |                |                              | SE(TR)    | <1      | % RPD      | KB      | 25-AUG-98     | 6020      |        |
|            |                |                              | SO4=      | 2.3     | % RPD      | LV      | 20-AUG-98     | 9036      |        |
|            |                |                              | TDS       | <1      | % RPD      | JH      | 17-AUG-98     | 160.1     |        |
|            |                |                              | TSS       | 1.4     | % RPD      | MO      | 17-AUG-98     | 160.2     |        |
|            |                |                              | ZN(D)     | 2.2     | % RPD      | KB      | 25-AUG-98     | 6020      |        |
|            |                |                              | ZN(TR)    | <1      | % RPD      | KB      | 25-AUG-98     | 6020      |        |
| WG981071-5 |                | Practical Quantitation Limit | AS(D)     | .005    | ppm        |         |               | 6020      |        |
|            |                |                              | AS(TR)    | .005    | ppm        |         |               | 6020      |        |
|            |                |                              | CA        | 1.0     | ppm        |         |               | 6010      |        |
|            |                |                              | CD(D)     | .005    | ppm        |         |               | 6020      |        |
|            |                |                              | CD(TR)    | .005    | ppm        |         |               | 6020      |        |
|            |                |                              | CL-       | 1.0     | ppm        |         |               | 325.2     |        |
|            |                |                              | CO3       | 1.0     | ppm CaCO3  |         |               | 310.1     |        |

## ASARCO TECHNICAL SERVICES CENTER


## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981071

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| WG981071-5 |                | Practical Quantitation Limit | COND.     | 5.0   | umhos     |         |               | 120.1     |        |
|            |                |                              | CR(D)     | .010  | ppm       |         |               | 6010      |        |
|            |                |                              | CR(TR)    | .010  | ppm       |         |               | 6010      |        |
|            |                |                              | CU(D)     | .025  | ppm       |         |               | 6010      |        |
|            |                |                              | CU(TR)    | .025  | ppm       |         |               | 6010      |        |
|            |                |                              | F-        | .10   | ppm       |         |               | 340.2     |        |
|            |                |                              | FE(D)     | .10   | ppm       |         |               | 6010      |        |
|            |                |                              | FE(TR)    | .10   | ppm       |         |               | 6010      |        |
|            |                |                              | HCO3      | 1.0   | ppm CaCO3 |         |               | 310.1     |        |
|            |                |                              | K         | 5.0   | ppm       |         |               | 6010      |        |
|            |                |                              | MG        | 1.0   | ppm       |         |               | 6010      |        |
|            |                |                              | NA        | 2.0   | ppm       |         |               | 6010      |        |
|            |                |                              | NO2/NO3   | .050  | ppm       |         |               | 353.2     |        |
|            |                |                              | PB(D)     | .003  | ppm       |         |               | 6020      |        |
|            |                |                              | PB(TR)    | .003  | ppm       |         |               | 6020      |        |
|            |                |                              | SE(D)     | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | SE(TR)    | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | SO4=      | 2.0   | ppm       |         |               | 9036      |        |
|            |                |                              | TDS       | 10.   | ppm       |         |               | 160.1     |        |
|            |                |                              | TSS       | 1.0   | ppm       |         |               | 160.2     |        |
|            |                |                              | ZN(D)     | .020  | ppm       |         |               | 6020      |        |
|            |                |                              | ZN(TR)    | .020  | ppm       |         |               | 6020      |        |

  
Approved  
Reviewer

May 19, 1964, 11:00.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
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## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981696-1 | 12-AUG-98      | EPRI-9808-114 | AS(D)     | .38   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 13.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .28   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 10.   | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 188.  | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | .037  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | .56   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 36.   | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | <5.0  | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 2.1   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 18.   | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 2.1   | ppm       | LV      | 27-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .005  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.4   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .065  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 35.   | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 130.  | ppm       | JH      | 18-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 85.   | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | 1.2   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-2 | 12-AUG-98      | EPRI-9808-121 | AS(D)     | 1.5   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 269.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 618.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 5520. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.0   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 600.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 26.   | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 68.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1125. | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 1.5   | ppm       | LV      | 27-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981696-2 | 12-AUG-98      | EPRI-9808-121 | PH        | 7.6   | pH        | DC      | 20-AUG-98     | 150.1     |        |
|           |                |               | SE(D)     | .036  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1804. | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 3870. | ppm       | JH      | 18-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 4150. | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .021  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-3 | 12-AUG-98      | EPRI-9808-111 | AS(D)     | 1.6   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 168.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 429.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 5620. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 3.2   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .49   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 357.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 62.   | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 89.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 874.  | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | .058  | ppm       | LV      | 27-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.7   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .009  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1790. | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 3423. | ppm       | JH      | 18-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 204.  | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .023  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-4 | 12-AUG-98      | EPRI-9808-178 | AS(D)     | 62.   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 469.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | 1.4   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 463.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 7550. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 5.9   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-------|----------|---------------|-----------|--------|
| L981696-4 | 12-AUG-98      | EPRI-9808-178 | FE(D)     | <.10   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 285.   | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 120.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 86.    | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1270.  | ppm   | JT       | 27-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 156.   | ppm   | LV       | 27-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.2    | pH    | DC       | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | 1.2    | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 2723.  | ppm   | LV       | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 6182.  | ppm   | JH       | 18-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 644.   | ppm   | MO       | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | 4.5    | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
| L981696-5 | 12-AUG-98      | EPRI-9808-118 | AS(D)     | .25    | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 628.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .076   | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 1983.  | ppm   | LV       | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 10080. | umhos | BD       | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | .30    | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.4    | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .98    | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 205.   | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 42.    | ppm   | JT       | 27-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 413.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1304.  | ppm   | JT       | 27-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 146.   | ppm   | LV       | 27-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.2    | pH    | DC       | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .24    | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 2160.  | ppm   | LV       | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 8072.  | ppm   | JH       | 18-AUG-98     | 7         | 160.1  |
| L981696-6 | 12-AUG-98      | EPRI-9808-176 | TSS       | 12.    | ppm   | MO       | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | 1.0    | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|           |                |               | AS(D)     | 1.6    | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 587.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L981696-6 | 12-AUG-98      | EPRI-9808-176 | CD(D)     | .56    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 1297.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 10580. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | .69    | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 6.4    | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 574.   | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 33.    | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 258.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1936.  | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 113.   | ppm       | LV      | 27-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .050   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.0    | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .34    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 3566.  | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 9183.  | ppm       | JH      | 18-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 14.    | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | 2.6    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-7 | 12-AUG-98      | EPRI-9808-182 | AS(D)     | 1.7    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 593.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .59    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 1238.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 10560. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | .70    | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 4.8    | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 572.   | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 35.    | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 266.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 2099.  | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 116.   | ppm       | LV      | 27-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .051   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.1    | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .36    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L981696-7 | 12-AUG-98      | EPRI-9808-182 | SO4=      | 3546.  | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 9096.  | ppm       | JH      | 18-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 12.    | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | 2.8    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-8 | 12-AUG-98      | EPRI-9808-119 | AS(D)     | 59.    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 515.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .84    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 708.   | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 10200. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | .060   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 12.    | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | 2.1    | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 636.   | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 320.   | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 320.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1881.  | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 1.5    | ppm       | LV      | 27-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .035   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.2    | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .065   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 4762.  | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|           |                |               | TDS       | 8465.  | ppm       | JH      | 18-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 25.    | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | 17.    | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-9 | 13-AUG-98      | EPRI-9808-154 | AS(D)     | .009   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 177.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 338.   | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 2840.  | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | .72    | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 228.   | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981696-9  | 13-AUG-98      | EPRI-9808-154 | K         | 22.   | ppm   | JT       | 27-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 70.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 433.  | ppm   | JT       | 27-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 8.1   | ppm   | LV       | 27-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.9   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .028  | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 840.  | ppm   | LV       | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 2144. | ppm   | JH       | 18-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 2.0   | ppm   | MO       | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .038  | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
| L981696-10 | 13-AUG-98      | EPRI-9808-133 | AS(D)     | .007  | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 236.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 483.  | ppm   | LV       | 18-AUG-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 4260. | umhos | BD       | 17-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | .016  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .64   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 212.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 16.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 99.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 672.  | ppm   | JT       | 27-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 41.   | ppm   | LV       | 27-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.8   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .25   | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 1312. | ppm   | LV       | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 3252. | ppm   | JH       | 18-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 25.   | ppm   | MO       | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .031  | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
| L981696-11 | 13-AUG-98      | EPRI-9808-132 | AS(D)     | .013  | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 458.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 362.  | ppm   | LV       | 18-AUG-98     | 28        | 325.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS     | METHOD |
|------------|----------------|---------------|-----------|-------|-------|---------|---------------|---------------|--------|
| L981696-11 | 13-AUG-98      | EPRI-9808-132 | CO3       | <1.0  | ppm   | CaCO3   | DC            | 20-AUG-98     | 310.1  |
|            |                |               | COND.     | 4360. | umhos | BD      |               | 17-AUG-98 28  | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | CU(D)     | <.025 | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | F-        | .74   | ppm   | VK      |               | 25-AUG-98 28  | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | HCO3      | 214.  | ppm   | CaCO3   | DC            | 20-AUG-98 14  | 310.1  |
|            |                |               | K         | 23.   | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | MG        | 135.  | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | NA        | 557.  | ppm   | JT      |               | 27-AUG-98 180 | 6010   |
|            |                |               | NO2/NO3   | 15.   | ppm   | LV      |               | 27-AUG-98 28  | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm   | KB      |               | 26-AUG-98 180 | 6020   |
|            |                |               | PH        | 7.6   | pH    | DC      |               | 20-AUG-98     | 150.1  |
|            |                |               | SE(D)     | .15   | ppm   | KB      |               | 26-AUG-98 180 | 6020   |
|            |                |               | SO4=      | 2017. | ppm   | LV      |               | 20-AUG-98 28  | 9036   |
|            |                |               | TDS       | 3985. | ppm   | JH      |               | 18-AUG-98 7   | 160.1  |
|            |                |               | TSS       | 1.5   | ppm   | MO      |               | 17-AUG-98     | 160.2  |
|            |                |               | ZN(D)     | .031  | ppm   | KB      |               | 26-AUG-98 180 | 6020   |
| L981696-12 | 13-AUG-98      | EPRI-9808-136 | AS(D)     | .14   | ppm   | KB      |               | 26-AUG-98 180 | 6020   |
|            |                |               | CA        | 392.  | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | CD(D)     | <.005 | ppm   | KB      |               | 26-AUG-98 180 | 6020   |
|            |                |               | CL-       | 498.  | ppm   | LV      |               | 18-AUG-98 28  | 325.2  |
|            |                |               | CO3       | <1.0  | ppm   | CaCO3   | DC            | 20-AUG-98     | 310.1  |
|            |                |               | COND.     | 6290. | umhos | BD      |               | 17-AUG-98 28  | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | CU(D)     | <.025 | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | F-        | .86   | ppm   | VK      |               | 25-AUG-98 28  | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | HCO3      | 252.  | ppm   | CaCO3   | DC            | 20-AUG-98 14  | 310.1  |
|            |                |               | K         | 22.   | ppm   | JT      |               | 27-AUG-98 180 | 6010   |
|            |                |               | MG        | 179.  | ppm   | JT      |               | 20-AUG-98 180 | 6010   |
|            |                |               | NA        | 1256. | ppm   | JT      |               | 27-AUG-98 180 | 6010   |
|            |                |               | NO2/NO3   | 53.   | ppm   | LV      |               | 27-AUG-98 28  | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm   | KB      |               | 26-AUG-98 180 | 6020   |
|            |                |               | PH        | 7.5   | pH    | DC      |               | 20-AUG-98     | 150.1  |
|            |                |               | SE(D)     | .29   | ppm   | KB      |               | 26-AUG-98 180 | 6020   |
|            |                |               | SO4=      | 2424. | ppm   | LV      |               | 20-AUG-98 28  | 9036   |
|            |                |               | TDS       | 5538. | ppm   | JH      |               | 18-AUG-98 7   | 160.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981696-12 | 13-AUG-98      | EPRI-9808-136 | TSS       | <1.0  | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .028  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-13 | 13-AUG-98      | EPRI-9808-135 | AS(D)     | 1.2   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 301.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | .013  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 516.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 6150. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | F-        | 1.1   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 242.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 30.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 153.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 1127. | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 42.   | ppm       | LV      | 27-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.6   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .22   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 2374. | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 5053. | ppm       | JH      | 18-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 6.3   | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .21   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-14 | 13-AUG-98      | EPRI-9808-137 | AS(D)     | .49   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 361.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | .20   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 552.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 6050. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | F-        | 1.3   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 240.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 29.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 165.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981696-14 | 13-AUG-98      | EPRI-9808-137 | NA        | 1040. | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 49.   | ppm       | LV      | 27-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.5   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .43   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 2303. | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 5094. | ppm       | JH      | 18-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 4.5   | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .54   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-15 | 13-AUG-98      | EPRI-9808-157 | AS(D)     | .010  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 417.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 2862. | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 9560. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | F-        | 1.2   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 128.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 33.   | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 183.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 1640. | ppm       | JT      | 27-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .22   | ppm       | LV      | 27-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.8   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 466.  | ppm       | LV      | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 6339. | ppm       | JH      | 18-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 5.6   | ppm       | MO      | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .028  | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
| L981696-16 | 13-AUG-98      | EPRI-9808-156 | AS(D)     | .68   | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 187.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 26-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 400.  | ppm       | LV      | 18-AUG-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 4210. | umhos     | BD      | 17-AUG-98     | 28        | 120.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981696

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981696-16 | 13-AUG-98      | EPRI-9808-156 | CR(D)     | <.010 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | F-        | 1.4   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 282.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 16.   | ppm   | JT       | 27-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 71.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 896.  | ppm   | JT       | 27-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 19.   | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.8   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .13   | ppm   | KB       | 26-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 1375. | ppm   | LV       | 20-AUG-98     | 28        | 9036   |
|            |                |               | TDS       | 3115. | ppm   | JH       | 18-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 15.   | ppm   | MO       | 17-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .031  | ppm   | KB       | 26-AUG-98     | 180       | 6020   |

PH is field parameter therefore holding time cannot be met.

Approved

Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981072

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981072-1 |                | Matrix Spike       | AS(D)     | 105   | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | CD(D)     | 98    | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 98    | % RECOVERY | LV      | 18-AUG-98     | 325.2     |        |
|            |                |                    | CR(D)     | 98    | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | 106   | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | F-        | 105   | % RECOVERY | VK      | 25-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | 104   | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 94    | % RECOVERY | LV      | 27-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | 96    | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | 115   | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | 103   | % RECOVERY | LV      | 20-AUG-98     | 9036      |        |
|            |                |                    | ZN(D)     | 104   | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
| WG981072-2 |                | Prep Blank         | AS(D)     | <.005 | ppm        | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | CA        | <1.0  | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CD(D)     | <.005 | ppm        | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | CL-       | <1.0  | ppm        | LV      | 18-AUG-98     | 325.2     |        |
|            |                |                    | CO3       | <1.0  | ppm CaCO3  | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                    | COND.     | <5.0  | umhos      | BD      | 17-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | <.010 | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | <.025 | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | F-        | <.10  | ppm        | VK      | 25-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | <.10  | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | HCO3      | <1.0  | ppm CaCO3  | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                    | K         | <5.0  | ppm        | JT      | 27-AUG-98     | 6010      |        |
|            |                |                    | MG        | <1.0  | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | NA        | <5.0  | ppm        | JT      | 27-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050 | ppm        | LV      | 27-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | <.003 | ppm        | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | <.005 | ppm        | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0  | ppm        | LV      | 20-AUG-98     | 9036      |        |
|            |                |                    | TDS       | <10.  | ppm        | JH      | 18-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0  | ppm        | MO      | 17-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | <.020 | ppm        | KB      | 26-AUG-98     | 6020      |        |
| WG981072-3 |                | Laboratory Control | AS(D)     | 98    | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | CA        | 106   | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CD(D)     | 100   | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 101   | % RECOVERY | LV      | 18-AUG-98     | 325.2     |        |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981072

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981072-3 |                | Laboratory Control | COND.     | 101   | % RECOVERY | BD      | 17-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | 102   | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | 108   | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | F-        | 100   | % RECOVERY | VK      | 25-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | 96    | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | HCO3      | 101   | % RECOVERY | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                    | K         | 105   | % RECOVERY | JT      | 27-AUG-98     | 6010      |        |
|            |                |                    | MG        | 102   | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | NA        | 105   | % RECOVERY | JT      | 27-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 97    | % RECOVERY | LV      | 27-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | 98    | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | 103   | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | 104   | % RECOVERY | LV      | 20-AUG-98     | 9036      |        |
|            |                |                    | TDS       | 104   | % RECOVERY | JH      | 18-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | 95    | % RECOVERY | MO      | 17-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | 103   | % RECOVERY | KB      | 26-AUG-98     | 6020      |        |
| WG981072-4 |                | Duplicate          | AS(D)     | <1    | % RPD      | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | CA        | 1.4   | % RPD      | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CD(D)     | <1    | % RPD      | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 2.2   | % RPD      | LV      | 18-AUG-98     | 325.2     |        |
|            |                |                    | CO3       | <1    | % RPD      | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                    | COND.     | <1    | % RPD      | BD      | 17-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | <1    | % RPD      | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | <1    | % RPD      | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | F-        | 3.5   | % RPD      | VK      | 25-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | <1    | % RPD      | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | HCO3      | 2.8   | % RPD      | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                    | K         | 6.3   | % RPD      | JT      | 27-AUG-98     | 6010      |        |
|            |                |                    | MG        | <1    | % RPD      | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | NA        | <1    | % RPD      | JT      | 27-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 1.8   | % RPD      | LV      | 27-AUG-98     | 353.2     |        |
|            |                |                    | PB(D)     | <1    | % RPD      | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | <1    | % RPD      | KB      | 26-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | <1    | % RPD      | LV      | 20-AUG-98     | 9036      |        |
|            |                |                    | TDS       | 2.3   | % RPD      | JH      | 18-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | <1    | % RPD      | MO      | 17-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | 3.6   | % RPD      | KB      | 26-AUG-98     | 6020      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981072

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| WG981072-5 |                | Practical Quantitation Limit | AS(D)     | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | CA        | 1.0   | ppm       |         |               | 6010      |        |
|            |                |                              | CD(D)     | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | CL-       | 1.0   | ppm       |         |               | 325.2     |        |
|            |                |                              | CO3       | 1.0   | ppm CaCO3 |         |               | 310.1     |        |
|            |                |                              | COND.     | 5.0   | umhos     |         |               | 120.1     |        |
|            |                |                              | CR(D)     | .010  | ppm       |         |               | 6010      |        |
|            |                |                              | CU(D)     | .025  | ppm       |         |               | 6010      |        |
|            |                |                              | F-        | .10   | ppm       |         |               | 340.2     |        |
|            |                |                              | FE(D)     | .10   | ppm       |         |               | 6010      |        |
|            |                |                              | HCO3      | 1.0   | ppm CaCO3 |         |               | 310.1     |        |
|            |                |                              | K         | 5.0   | ppm       |         |               | 6010      |        |
|            |                |                              | MG        | 1.0   | ppm       |         |               | 6010      |        |
|            |                |                              | NA        | 5.0   | ppm       |         |               | 6010      |        |
|            |                |                              | NO2/NO3   | .050  | ppm       |         |               | 353.2     |        |
|            |                |                              | PB(D)     | .003  | ppm       |         |               | 6020      |        |
|            |                |                              | SE(D)     | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | SO4=      | 2.0   | ppm       |         |               | 9036      |        |
|            |                |                              | TDS       | 10.   | ppm       |         |               | 160.1     |        |
|            |                |                              | TSS       | 1.0   | ppm       |         |               | 160.2     |        |
|            |                |                              | ZN(D)     | .020  | ppm       |         |               | 6020      |        |

Approved

Reviewer

CHAIN OF CUSTODY RECORD

4.70

| PROJ. NO.                |      | PROJECT NAME         |      | NO. OF CONTAINERS                       |                |  |                                |   |                                  |  |      |   |  |  |  |  | REMARKS |  |  |  |
|--------------------------|------|----------------------|------|---|----------------|--|--------------------------------|---|----------------------------------|--|------|---|--|--|--|--|---------|--|--|--|
| 0913                     |      | ASARCO - EL PASO, TX |      |   |                |  |                                |   |                                  |  |      |   |  |  |  |  |         |  |  |  |
| SAMPLERS: (Signature)    |      |                      |      |   |                |  |                                |   |                                  |  |      |   |  |  |  |  |         |  |  |  |
| Douglas M. Solan         |      |                      |      |   |                |  |                                |   |                                  |  |      |   |  |  |  |  |         |  |  |  |
| DATE                     | TIME | COMP.                | GRAB | SAMPLE NUMBER                           | Commons UF/RAW | Nutrients UF/H <sub>2</sub> SO <sub>4</sub>                                      | Diss. Metal F/HNO <sub>3</sub> | CN UF/NaOH  | Total Metals UF/HNO <sub>3</sub> | Total Recoverable Metals UF/HNO <sub>3</sub> | BTEX | TPH   |  |  |  |  |         |  |  |  |
| 8-12-98                  | 830  |                      |      | EPR1-9808-114                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 930  |                      |      | EPR1-9808-121                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1000 |                      |      | EPR1-9808-111                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1045 |                      |      | EPR1-9808-178                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1345 |                      |      | EPR1-9808-118                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1430 |                      |      | EPR1-9808-176                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1440 |                      |      | EPR1-9808-182                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1515 |                      |      | EPR1-9808-119                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
| 8-13-98                  | 850  |                      |      | EPR1-9808-154                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 940  |                      |      | EPR1-9808-133                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1020 |                      |      | EPR1-9808-132                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1050 |                      |      | EPR1-9808-136                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1130 |                      |      | EPR1-9808-135                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1320 |                      |      | EPR1-9808-137                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          | 1400 |                      |      | EPR1-9808-157                           | 3              | ✓  | ✓                              | ✓   |                                  |  |      |   |  |  |  |  |         |  |  |  |
| Relinquished (Signature) |      | Date/Time            |      | Received by: (Signature)                |                | Lab  |                                | P.O. #  |                                  | Shipped via: Bus, <u>Fed Ex</u> , UPS        |      |   |  |  |  |  |         |  |  |  |
| Douglas M. Solan         |      | 1000<br>8/13/98      |      |   |                | TSC - 5 ARLAKE City, TX  |                                |   |                                  | Other _____<br>Air Bill # _____              |      |   |  |  |  |  |         |  |  |  |
| Relinquished (Signature) |      | Date/Time            |      | Received by: (Signature)                |                | Remarks  |                                |   |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          |      |                      |      |   |                |  |                                |   |                                  |  |      |   |  |  |  |  |         |  |  |  |
| Relinquished (Signature) |      | Date/Time            |      | Received for Laboratory by: (Signature) |                | Date/Time  |                                | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits<br><input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter<br><input type="checkbox"/> Other _____ |                                  |  |      |   |  |  |  |  |         |  |  |  |
|                          |      |                      |      | [Signature]                             |                | 8/14/98 10:30  |                                |   |                                  |  |      |   |  |  |  |  |         |  |  |  |
| HF0RM-1-                 |      |                      |      |   |                | Return results & electronic copy to:<br>Computer Dept. at address at top of page |                                |   |                                  |  |      | Split Samples:<br><input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ |  |  |  |  |         |  |  |  |

הַיְּהוּדִים הַזֵּהִם הָיוּ לְבָנֵי הָאֱלֹהִים.

3275 W Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 420182, El Paso TX 79913 • (915) 532-3489 • FAX (915) 532-4897

[illegible]

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981721-1 | 17-AUG-98      | EPRI-9808-139 | AS(D)     | .21   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 75.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 234.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 2380. | umhos     | BD      | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | .76   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 220.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 8.1   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 36.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 421.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 8.3   | ppm       | LV      | 31-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.8   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .51   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 637.  | ppm       | LV      | 02-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 1654. | ppm       | JH      | 24-AUG-98     | 7         | 160.1  |
| L981721-2 | 17-AUG-98      | EPRI-9808-142 | TSS       | 7.8   | ppm       | MO      | 25-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .040  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | AS(D)     | 6.1   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 254.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .018  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 684.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 5800. | umhos     | BD      | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.6   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 240.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 39.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 58.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1199. | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | .42   | ppm       | LV      | 31-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .005  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981721-2 | 17-AUG-98      | EPRI-9808-142 | PH        | 7.5   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .019  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1996. | ppm       | LV      | 02-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 4255. | ppm       | JH      | 24-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 18.   | ppm       | MO      | 25-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .037  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981721-3 | 17-AUG-98      | EPRI-9808-153 | AS(D)     | .027  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 55.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 468.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 5400. | umhos     | BD      | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.2   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 503.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 15.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 35.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1359. | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | .90   | ppm       | LV      | 31-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.7   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .024  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1711. | ppm       | LV      | 02-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3832. | ppm       | JH      | 24-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 32.   | ppm       | MO      | 25-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .036  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | AS(D)     | .031  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 286.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 469.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 6700. | umhos     | BD      | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.7   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
| L981721-4 | 17-AUG-98      | EPRI-9808-138 | AS(D)     | .031  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 286.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 469.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 6700. | umhos     | BD      | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.7   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-------|----------|---------------|-----------|--------|
| L981721-4 | 17-AUG-98      | EPRI-9808-138 | FE(D)     | <.10   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 234.   | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 394.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 121.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1162.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 21.    | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.5    | pH    | DC       | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | 1.2    | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 2754.  | ppm   | LV       | 02-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 5365.  | ppm   | JH       | 24-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 2.9    | ppm   | MO       | 25-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .043   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981721-5 | 17-AUG-98      | EPRI-9808-140 | AS(D)     | 18.    | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 421.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 203.   | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 18700. | umhos | BD       | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | .042   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.6    | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 621.   | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 661.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 401.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 4249.  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 176.   | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.4    | pH    | DC       | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | 3.7    | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 11607. | ppm   | LV       | 02-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 17873. | ppm   | JH       | 24-AUG-98     | 7         | 160.1  |
| L981721-6 | 17-AUG-98      | EPRI-9808-141 | TSS       | 16.    | ppm   | MO       | 25-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .14    | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | AS(D)     | .42    | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 182.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981721-6 | 17-AUG-98      | EPRI-9808-141 | CD(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 503.  | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 5070. | umhos | BD       | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.9   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 399.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 68.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 102.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 985.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 5.7   | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .008  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.6   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .16   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1779. | ppm   | LV       | 02-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3737. | ppm   | JH       | 24-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 5.0   | ppm   | MO       | 25-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .073  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981721-7 | 17-AUG-98      | EPRI-9808-158 | AS(D)     | 1.8   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 159.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .055  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 536.  | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 4970. | umhos | BD       | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | .044  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 9.0   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .49   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 154.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 60.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 34.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1071. | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | .19   | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .003  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.8   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981721-7 | 17-AUG-98      | EPRI-9808-158 | SO4=      | 1787. | ppm   | LV       | 02-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3613. | ppm   | JH       | 24-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 3.7   | ppm   | MO       | 25-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .17   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981721-8 | 17-AUG-98      | EPRI-9808-159 | AS(D)     | .021  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 124.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 454.  | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 4600. | umhos | BD       | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | .043  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.1   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | HCO3      | 340.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 22.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 77.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 912.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 7.5   | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .003  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.6   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .12   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1539. | ppm   | LV       | 02-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3324. | ppm   | JH       | 24-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 2.6   | ppm   | MO       | 25-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .037  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981721-9 | 18-AUG-98      | EPRI-9808-173 | AS(D)     | .88   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | AS(TR)    | .87   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 267.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .12   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CD(TR)    | .14   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 639.  | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | 18.   | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 5390. | umhos | BD       | 20-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|           |                |               | CR(TR)    | <.010 | ppm   | JT       | 25-AUG-98     |           | 6010   |
|           |                |               | CU(D)     | .22   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981721-9  | 18-AUG-98      | EPRI-9808-173 | CU(TR)    | .75   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | 4.1   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | .35   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 155.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 47.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 56.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 950.  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .84   | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | .066  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .13   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.6   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .058  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | .051  | ppm   | KB       | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 1846. | ppm   | LV       | 02-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 4045. | ppm   | JH       | 24-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 17.   | ppm   | MO       | 25-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .30   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .46   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981721-10 | 18-AUG-98      | EPRI-9808-172 | AS(D)     | .21   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .27   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 108.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | .067  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | .074  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 349.  | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 1970. | umhos | BD       | 20-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm   | JT       | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | .33   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | 1.4   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | 3.1   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 1.7   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 17.   | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 14.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 25.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 275.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE   | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|---------|-----------|---------|---------------|-----------|--------|
| L981721-10 | 18-AUG-98      | EPRI-9808-172 | NO2/NO3   | .098    | ppm       | LV      | 31-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | .019    | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .58     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 6.7     | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .032    | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | .028    | ppm       | KB      | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 449.    | ppm       | LV      | 02-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 1277.   | ppm       | JH      | 24-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 11.     | ppm       | MO      | 25-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .82     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | 1.0     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981721-11 | 18-AUG-98      | EPRI-9808-171 | AS(D)     | .22     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .29     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 585.    | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | 35.     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | 32.     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 5316.   | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0    | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 126300. | umhos     | BD      | 20-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010   | ppm       | JT      | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | .75     | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | 1.1     | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | 38.     | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10    | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | .16     | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 206.    | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 1157.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 545.    | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 36130.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 55.     | ppm       | LV      | 31-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | .49     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .37     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.1     | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | 2.9     | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | 2.8     | ppm       | KB      | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 59186.  | ppm       | LV      | 02-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 101290. | ppm       | JH      | 24-AUG-98     | 7         | 160.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981721-11 | 18-AUG-98      | EPRI-9808-171 | TSS       | 43.   | ppm       | MO      | 25-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | 51.   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | 51.   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981721-12 | 18-AUG-98      | EPRI-9808-166 | AS(D)     | .006  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .005  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 67.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 115.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | 10.   | ppm CaCO3 | DC      | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 1142. | umhos     | BD      | 20-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm       | JT      | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .68   | ppm       | VK      | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 4.2   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 175.  | ppm CaCO3 | DC      | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 10.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 15.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 154.  | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 2.5   | ppm       | LV      | 31-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .009  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.5   | pH        | DC      | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm       | KB      | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 236.  | ppm       | LV      | 02-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 712.  | ppm       | JH      | 24-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 169.  | ppm       | MO      | 25-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .021  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .043  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981721-13 | 18-AUG-98      | EPRI-9808-167 | AS(D)     | .005  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 64.   | ppm       | JT      | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981721-13 | 18-AUG-98      | EPRI-9808-167 | CD(TR)    | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 85.   | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | 18.   | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 969.  | umhos | BD       | 20-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm   | JT       | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | .025  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .62   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 5.4   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 170.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 9.0   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 14.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 113.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .17   | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .006  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.7   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm   | KB       | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 207.  | ppm   | LV       | 02-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 608.  | ppm   | JH       | 24-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 190.  | ppm   | MO       | 25-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | <.020 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .033  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981721-14 | 18-AUG-98      | EPRI-9808-168 | AS(D)     | .006  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 65.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 86.   | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | 18.   | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 968.  | umhos | BD       | 20-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm   | JT       | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981721-14 | 18-AUG-98      | EPRI-9808-168 | F-        | .60   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 5.6   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 170.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 9.7   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 15.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 115.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .14   | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .006  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.7   | pH    | DC       | 20-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm   | KB       | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 203.  | ppm   | LV       | 02-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 623.  | ppm   | JH       | 24-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 202.  | ppm   | MO       | 25-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | <.020 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .028  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981721-15 | 18-AUG-98      | EPRI-9808-162 | AS(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 66.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 84.   | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | 18.   | ppm   | CaCO3 DC | 20-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 966.  | umhos | BD       | 20-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm   | JT       | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .62   | ppm   | VK       | 25-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 5.3   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | HCO3      | 169.  | ppm   | CaCO3 DC | 20-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 9.3   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 15.   | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 116.  | ppm   | JT       | 20-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .13   | ppm   | LV       | 31-AUG-98     | 28        | 353.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981721

| LAB NO     | DATE      |  | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST | DATE      |      | HOLD  | METHOD |
|------------|-----------|--|---------------|-----------|-------|-------|---------|-----------|------|-------|--------|
|            | COLLECTED |  |               |           |       |       |         | ANALYZED  | DAYS |       |        |
| L981721-15 | 18-AUG-98 |  | EPRI-9808-162 | PB(D)     | <.003 | ppm   | KB      | 28-AUG-98 | 180  | 6020  |        |
|            |           |  |               | PB(TR)    | .007  | ppm   | KB      | 28-AUG-98 | 180  | 6020  |        |
|            |           |  |               | PH        | 8.7   | pH    | DC      | 20-AUG-98 |      | 150.1 |        |
|            |           |  |               | SE(D)     | <.005 | ppm   | KB      | 28-AUG-98 | 180  | 6020  |        |
|            |           |  |               | SE(TR)    | <.005 | ppm   | KB      | 28-AUG-98 |      | 6020  |        |
|            |           |  |               | SO4=      | 204.  | ppm   | LV      | 02-SEP-98 | 28   | 9036  |        |
|            |           |  |               | TDS       | 621.  | ppm   | JH      | 24-AUG-98 | 7    | 160.1 |        |
|            |           |  |               | TSS       | 202.  | ppm   | MO      | 25-AUG-98 |      | 160.2 |        |
|            |           |  |               | ZN(D)     | <.020 | ppm   | KB      | 28-AUG-98 | 180  | 6020  |        |
|            |           |  |               | ZN(TR)    | .023  | ppm   | KB      | 28-AUG-98 | 180  | 6020  |        |

PH is a field parameter therefore holding time cannot be met by the laboratory.  
Digestion Method---3005 & 6020M.

Approved

Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981073

| LAB NO     | DATE COLLECTED | DESCRIPTION  | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981073-1 |                | Matrix Spike | AS(TR)    | 95    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CD(TR)    | 99    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CL-       | 103   | % RECOVERY | LV      | 01-SEP-98     | 325.2     |        |
|            |                |              | CR(D)     | 97    | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | CR(TR)    | 96    | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | CU(D)     | 102   | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | CU(TR)    | 101   | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | F-        | 100   | % RECOVERY | VK      | 25-AUG-98     | 340.2     |        |
|            |                |              | FE(D)     | 103   | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | FE(TR)    | 95    | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | NO2/NO3   | 97    | % RECOVERY | LV      | 31-AUG-98     | 353.2     |        |
|            |                |              | PB(TR)    | 96    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | SE(TR)    | 95    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | SO4=      | 86    | % RECOVERY | LV      | 02-SEP-98     | 9036      |        |
|            |                |              | ZN(TR)    | 88    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
| WG981073-2 |                | Prep Blank   | AS(TR)    | <.005 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CA        | <1.0  | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | CD(TR)    | <.005 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CL-       | <1.0  | ppm        | LV      | 01-SEP-98     | 325.2     |        |
|            |                |              | CO3       | <1    | ppm CaCO3  | DC      | 20-AUG-98     | 310.1     |        |
|            |                |              | COND.     | <5.0  | umhos      | BD      | 20-AUG-98     | 120.1     |        |
|            |                |              | CR(D)     | <.010 | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | CR(TR)    | <.010 | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | CU(D)     | <.025 | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | CU(TR)    | <.025 | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | F-        | <.10  | ppm        | VK      | 25-AUG-98     | 340.2     |        |
|            |                |              | FE(D)     | <.10  | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | FE(TR)    | <.10  | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | HCO3      | <1.0  | ppm CaCO3  | DC      | 20-AUG-98     | 310.1     |        |
|            |                |              | K         | <5.0  | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | MG        | <1.0  | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | NA        | <2.0  | ppm        | JT      | 20-AUG-98     | 6010      |        |
|            |                |              | NO2/NO3   | <.050 | ppm        | LV      | 31-AUG-98     | 353.2     |        |
|            |                |              | PB(TR)    | <.003 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | SE(TR)    | <.005 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | SO4=      | <2.0  | ppm        | LV      | 02-SEP-98     | 9036      |        |
|            |                |              | TDS       | <10.  | ppm        | JH      | 24-AUG-98     | 160.1     |        |
|            |                |              | TSS       | <1.0  | ppm        | MO      | 25-AUG-98     | 160.2     |        |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981073

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE   | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|---------|------------|---------|---------------|-----------|--------|
| WG981073-2 |                | Prep Blank         | ZN(TR)    | <.020   | ppm        | KB      | 28-AUG-98     | 6020      |        |
| WG981073-3 |                | Laboratory Control | AS(TR)    | 103     | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | CA        | 104     | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CD(TR)    | 105     | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 101     | % RECOVERY | LV      | 01-SEP-98     | 325.2     |        |
|            |                |                    | COND.     | 100     | % RECOVERY | BD      | 20-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | 100     | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CR(TR)    | 96      | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | 106     | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CU(TR)    | 100     | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | F-        | 97      | % RECOVERY | VK      | 25-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | 95      | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | FE(TR)    | 104     | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | HCO3      | 99      | % RECOVERY | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                    | K         | 105     | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | MG        | 100     | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | NA        | 110     | % RECOVERY | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 98      | % RECOVERY | LV      | 31-AUG-98     | 353.2     |        |
|            |                |                    | PB(TR)    | 105     | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | SE(TR)    | 108     | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | 101     | % RECOVERY | LV      | 02-SEP-98     | 9036      |        |
|            |                |                    | TDS       | 88      | % RECOVERY | JH      | 24-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | 90      | % RECOVERY | MO      | 25-AUG-98     | 160.2     |        |
|            |                |                    | ZN(TR)    | 114     | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
| WG981073-4 |                | Duplicate          | AS(TR)    | +/-prdl | % RPD      | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | CA        | 1.5     | % RPD      | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CD(TR)    | <1      | % RPD      | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 1.3     | % RPD      | LV      | 01-SEP-98     | 325.2     |        |
|            |                |                    | CO3       | <1      | % RPD      | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                    | COND.     | <1      | % RPD      | BD      | 20-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | <1      | % RPD      | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CR(TR)    | <1      | % RPD      | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | <1      | % RPD      | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | CU(TR)    | 5.4     | % RPD      | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | F-        | 2.6     | % RPD      | VK      | 25-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | <1      | % RPD      | JT      | 20-AUG-98     | 6010      |        |
|            |                |                    | FE(TR)    | +/-prdl | % RPD      | JT      | 25-AUG-98     | 6010      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981073

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE   | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|---------|-------|---------|---------------|-----------|--------|
| WG981073-4 |                | Duplicate                    | HCO3      | <1      | % RPD | DC      | 20-AUG-98     | 310.1     |        |
|            |                |                              | K         | 2.1     | % RPD | JT      | 20-AUG-98     | 6010      |        |
|            |                |                              | MG        | <1      | % RPD | JT      | 20-AUG-98     | 6010      |        |
|            |                |                              | NA        | <1      | % RPD | JT      | 20-AUG-98     | 6010      |        |
|            |                |                              | NO2/NO3   | 1.2     | % RPD | LV      | 31-AUG-98     | 353.2     |        |
|            |                |                              | PB(TR)    | +/-prdl | % RPD | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | SE(TR)    | <1      | % RPD | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | SO4=      | 2.0     | % RPD | LV      | 02-SEP-98     | 9036      |        |
|            |                |                              | TDS       | <1      | % RPD | JH      | 24-AUG-98     | 160.1     |        |
|            |                |                              | TSS       | <1      | % RPD | MO      | 25-AUG-98     | 160.2     |        |
|            |                |                              | ZN(TR)    | +/-prdl | % RPD | KB      | 28-AUG-98     | 6020      |        |
| WG981073-5 |                | Practical Quantitation Limit | AS(D)     | .005    | ppm   |         |               | 6020      |        |
|            |                |                              | AS(TR)    | .005    | ppm   |         |               | 6020      |        |
|            |                |                              | CA        | 1.0     | ppm   |         |               | 6010      |        |
|            |                |                              | CD(D)     | .005    | ppm   |         |               | 6020      |        |
|            |                |                              | CD(TR)    | .005    | ppm   |         |               | 6020      |        |
|            |                |                              | CL-       | 1.0     | ppm   |         |               | 325.2     |        |
|            |                |                              | CO3       | 1.0     | ppm   | CaCO3   |               | 310.1     |        |
|            |                |                              | COND.     | 5.0     | umhos |         |               | 120.1     |        |
|            |                |                              | CR(D)     | .010    | ppm   |         |               | 6010      |        |
|            |                |                              | CR(TR)    | .010    | ppm   |         |               | 6010      |        |
|            |                |                              | CU(D)     | .025    | ppm   |         |               | 6010      |        |
|            |                |                              | CU(TR)    | .025    | ppm   |         |               | 6010      |        |
|            |                |                              | F-        | .10     | ppm   |         |               | 340.2     |        |
|            |                |                              | FE(D)     | .10     | ppm   |         |               | 6010      |        |
|            |                |                              | FE(TR)    | .10     | ppm   |         |               | 6010      |        |
|            |                |                              | HCO3      | 1.0     | ppm   | CaCO3   |               | 310.1     |        |
|            |                |                              | K         | 5.0     | ppm   |         |               | 6010      |        |
|            |                |                              | MG        | 1.0     | ppm   |         |               | 6010      |        |
|            |                |                              | NA        | 2.0     | ppm   |         |               | 6010      |        |
|            |                |                              | NO2/NO3   | .050    | ppm   |         |               | 353.2     |        |
|            |                |                              | PB(D)     | .003    | ppm   |         |               | 6020      |        |
|            |                |                              | PB(TR)    | .003    | ppm   |         |               | 6020      |        |
|            |                |                              | SE(D)     | .005    | ppm   |         |               | 6020      |        |
|            |                |                              | SE(TR)    | .005    | ppm   |         |               | 6020      |        |
|            |                |                              | SO4=      | 2.0     | ppm   |         |               | 9036      |        |
|            |                |                              | TDS       | 10.     | ppm   |         |               | 160.1     |        |
|            |                |                              | TSS       | 1.0     | ppm   |         |               | 160.2     |        |

ASARCO TECHNICAL SERVICES CENTER


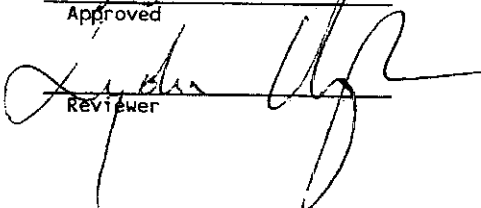
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981073

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-------|---------|---------------|-----------|--------|
| WG981073-5 |                | Practical Quantitation Limit | ZN(D)     | .020  | ppm   |         |               | 6020      |        |
|            |                |                              | ZN(TR)    | .020  | ppm   |         |               | 6020      |        |

  
 Approved  
  
 Reviewer

# HYDROMETRICS INC.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

## CHAIN OF CUSTODY RECORD

| PROJ. NO. |      | PROJECT NAME         |      |               | NO. OF CONTAINERS | ANALYSIS PARAMETERS |   |                                |            |                                  |  |      |     |     |  |  |  | REMARKS |  |  |  |
|-----------|------|----------------------|------|---------------|-------------------|---------------------|---|--------------------------------|------------|----------------------------------|--|------|-----|-----|--|--|--|---------|--|--|--|
| 0931-     |      | ASARCO - EL PASO, TX |      |               |                   | Commons UF/RAW      | Nutrients UF/H <sub>2</sub> SO <sub>4</sub> | Diss. Metal F/HNO <sub>3</sub> | CN UF/NaOH | Total Metals UF/HNO <sub>3</sub> | Total Recoverable Metals UF/HNO <sub>3</sub> | BTEX | TPH |     |  |  |  |         |  |  |  |
| DATE      | TIME | COMP.                | GRAB | SAMPLE NUMBER |                   |                     |   |                                |            |                                  |  |      |     |     |  |  |  |         |  |  |  |
| 8-17-98   | 915  |                      |      | EPRI-9808-139 | 3                 | ✓                   | ✓   | ✓                              |            |                                  |  |      |     |     |  |  |  |         |  |  |  |
|           | 950  |                      |      | EPRI-9808-142 | 3                 | ✓                   | ✓   | ✓                              |            |                                  |  |      |     |     |  |  |  |         |  |  |  |
|           | 1030 |                      |      | EPRI-9808-153 | 3                 | ✓                   | ✓   | ✓                              |            |                                  |  |      |     |     |  |  |  |         |  |  |  |
|           | 1115 |                      |      | EPRI-9808-138 | 3                 | ✓                   | ✓   | ✓                              |            |                                  |  |      |     |     |  |  |  |         |  |  |  |
|           | 1315 |                      |      | EPRI-9808-140 | 3                 | ✓                   | ✓   | ✓                              |            |                                  |  |      |     |     |  |  |  |         |  |  |  |
|           | 1445 |                      |      | EPRI-9808-141 | 3                 | ✓                   | ✓   | ✓                              |            |                                  |  |      |     |     |  |  |  |         |  |  |  |
|           | 1530 |                      |      | EPRI-9808-158 | 3                 | ✓                   | ✓   | ✓                              |            |                                  |  |      |     |     |  |  |  |         |  |  |  |
|           | 1615 |                      |      | EPRI-9808-159 | 3                 | ✓                   | ✓   | ✓                              |            |                                  |  |      |     |     |  |  |  |         |  |  |  |
| 8-18-98   | 815  |                      |      | EPRI-9808-173 | 4                 | ✓                   | ✓   | ✓                              |            |                                  |  |      | ✓   | -12 |  |  |  |         |  |  |  |
|           | 840  |                      |      | EPRI-9808-172 | 4                 | ✓                   | ✓   | ✓                              |            |                                  |  |      | ✓   |     |  |  |  |         |  |  |  |
|           | 900  |                      |      | EPRI-9808-171 | 4                 | ✓                   | ✓   | ✓                              |            |                                  |  |      | ✓   |     |  |  |  |         |  |  |  |
|           | 945  |                      |      | EPRI-9808-166 | 4                 | ✓                   | ✓   | ✓                              |            |                                  |  |      | ✓   |     |  |  |  |         |  |  |  |
|           | 1400 |                      |      | EPRI-9808-167 | 4                 | ✓                   | ✓   | ✓                              |            |                                  |  |      | ✓   |     |  |  |  |         |  |  |  |
|           | 1410 |                      |      | EPRI-9808-168 | 4                 | ✓                   | ✓   | ✓                              |            |                                  |  |      | ✓   |     |  |  |  |         |  |  |  |
|           | 1425 |                      |      | EPRI-9808-162 | 4                 | ✓                   | ✓   | ✓                              |            |                                  |  |      | ✓   |     |  |  |  |         |  |  |  |

|  |                           |   |                                 |  |  |
|--|---------------------------|---|---------------------------------|--|--|
| Relinquished (Signature)<br><i>Harold Gutz</i> | Date/Time<br>8/18/98 1630 | Received by: (Signature)                                      | Lab<br>TSC - SALT LAKE CITY, UT | P.O. #   | Shipped via: Bus, <u>Fed Ex</u> , UPS<br>Other _____<br>Air Bill # _____ |
| Relinquished (Signature)                       | Date/Time                 | Received by: (Signature)                                      | Remarks                         |  |  |
| Relinquished (Signature)                       | Date/Time                 | Received for Laboratory by: (Signature)<br><i>[Signature]</i> | Date/Time<br>8-19-98 10:30      | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits<br><input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter<br><input type="checkbox"/> Other _____ |  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981732-1 | 19-AUG-98      | EPRI-9808-146 | AS(D)     | .25   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 163.  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 142.  | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm   | CaCO3 BD | 27-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 2630. | umhos | BD       | 22-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.2   | ppm   | VK       | 26-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm   | BD       | 02-SEP-98     | 180       | 236.1  |
|           |                |               | HCO3      | 391.  | ppm   | CaCO3 BD | 27-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 12.   | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 84.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 336.  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 6.9   | ppm   | LV       | 04-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.6   | pH    | BD       | 27-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .26   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 987.  | ppm   | LV       | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 2039. | ppm   | JH       | 26-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 3.3   | ppm   | MO       | 26-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .038  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981732-2 | 19-AUG-98      | EPRI-9808-150 | AS(D)     | 2.7   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 112.  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 265.  | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm   | CaCO3 BD | 27-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 3240. | umhos | BD       | 22-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 3.3   | ppm   | VK       | 26-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm   | BD       | 02-SEP-98     | 180       | 236.1  |
|           |                |               | HCO3      | 298.  | ppm   | CaCO3 BD | 27-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 29.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 55.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 550.  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 6.8   | ppm   | LV       | 04-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981732-2 | 19-AUG-98      | EPRI-9808-150 | PH        | 7.8   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .16   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1158. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 2432. | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 1.8   | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .019  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-3 | 19-AUG-98      | EPRI-9808-180 | AS(D)     | 2.7   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 113.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 264.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 3250. | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 3.2   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|           |                |               | HCO3      | 300.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 28.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 56.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 553.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 6.7   | ppm       | LV      | 04-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.8   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .16   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1145. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 2427. | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 1.8   | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .032  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-4 | 19-AUG-98      | EPRI-9808-144 | AS(D)     | .010  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 60.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 524.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 5330. | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | .012  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 3.9   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981732-4 | 19-AUG-98      | EPRI-9808-144 | FE(D)     | <.10  | ppm   | BD       | 02-SEP-98     | 180       | 236.1  |
|           |                |               | HCO3      | 372.  | ppm   | CaCO3 BD | 27-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 8.9   | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 74.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 1183. | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 9.5   | ppm   | LV       | 04-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 8.0   | pH    | BD       | 27-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .17   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1766. | ppm   | LV       | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3921. | ppm   | JH       | 26-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | <1.0  | ppm   | MO       | 26-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .026  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981732-5 | 19-AUG-98      | EPRI-9808-151 | AS(D)     | .005  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 40.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 275.  | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm   | CaCO3 BD | 27-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 2660. | umhos | BD       | 22-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.7   | ppm   | VK       | 26-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm   | BD       | 02-SEP-98     | 180       | 236.1  |
|           |                |               | HCO3      | 288.  | ppm   | CaCO3 BD | 27-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 7.7   | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 31.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 501.  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 5.8   | ppm   | LV       | 04-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 8.1   | pH    | BD       | 27-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .038  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 782.  | ppm   | LV       | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 1823. | ppm   | JH       | 26-AUG-98     | 7         | 160.1  |
| L981732-6 | 19-AUG-98      | EPRI-9808-143 | TSS       | 4.0   | ppm   | MO       | 26-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .025  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | AS(D)     | 5.4   | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 68.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981732-6 | 19-AUG-98      | EPRI-9808-143 | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 331.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 3660. | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 3.7   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|           |                |               | HCO3      | 274.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 56.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 37.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 658.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 9.4   | ppm       | LV      | 04-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 8.1   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .25   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1143. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 2561. | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 1.8   | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .025  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-7 | 19-AUG-98      | EPRI-9808-147 | AS(D)     | .009  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 158.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 567.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 4880. | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 2.7   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|           |                |               | HCO3      | 320.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 27.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | MG        | 81.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 889.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 8.7   | ppm       | LV      | 04-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 7.7   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | .18   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981732-7 | 19-AUG-98      | EPRI-9808-147 | SO4=      | 1604. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3826. | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 12.   | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .027  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-8 | 19-AUG-98      | EPRI-9808-145 | AS(D)     | .014  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 163.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 435.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 5180. | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | F-        | 1.3   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|           |                |               | HCO3      | 448.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |
|           |                |               | K         | 20.   | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 79.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | NA        | 984.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | .084  | ppm       | LV      | 04-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | PH        | 8.0   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | SO4=      | 1880. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3949. | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 61.   | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .030  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-9 | 19-AUG-98      | EPRI-9808-149 | AS(D)     | .030  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CA        | 195.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CD(D)     | .006  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|           |                |               | CL-       | 330.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|           |                |               | COND.     | 2780. | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|           |                |               | F-        | .66   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|           |                |               | HCO3      | 242.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981732-9  | 19-AUG-98      | EPRI-9808-149 | K         | 7.2   | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | MG        | 88.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 268.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 6.6   | ppm       | LV      | 04-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)     | .027  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.8   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .024  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 924.  | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 2183. | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | <1.0  | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .046  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-10 | 19-AUG-98      | EPRI-9808-148 | AS(D)     | .006  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 69.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 391.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 3930. | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | 2.9   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|            |                |               | HCO3      | 308.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 8.6   | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | MG        | 63.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 758.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 7.5   | ppm       | LV      | 04-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.0   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .044  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 1316. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 2847. | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 1.0   | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .026  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-11 | 20-AUG-98      | EPRI-9808-169 | AS(D)     | .005  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .006  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 60.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981732-11 | 20-AUG-98      | EPRI-9808-169 | CD(TR)    | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 81.   | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | 4.0   | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 952.  | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm       | JT      | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .62   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|            |                |               | FE(TR)    | 4.2   | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|            |                |               | HCO3      | 184.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 8.2   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 14.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 112.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .29   | ppm       | LV      | 04-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .007  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.4   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm       | KB      | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 180.  | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 644.  | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 204.  | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | <.020 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .024  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-12 | 20-AUG-98      | EPRI-9808-170 | AS(D)     | .005  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .005  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 61.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 80.   | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | 4.0   | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 954.  | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm       | JT      | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L981732-12 | 20-AUG-98      | EPRI-9808-170 | F-        | .62   | ppm   | VK       | 26-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | BD       | 02-SEP-98     | 180       | 236.1  |
|            |                |               | FE(TR)    | 4.6   | ppm   | BD       | 02-SEP-98     | 180       | 236.1  |
|            |                |               | HCO3      | 183.  | ppm   | CaCO3 BD | 27-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 7.5   | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|            |                |               | MG        | 14.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 111.  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .27   | ppm   | LV       | 04-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .005  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.4   | pH    | BD       | 27-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm   | KB       | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 179.  | ppm   | LV       | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 671.  | ppm   | JH       | 26-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 234.  | ppm   | MO       | 26-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | <.020 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .023  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
| L981732-13 | 20-AUG-98      | EPRI-9808-179 | AS(D)     | .005  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .005  | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 61.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm   | KB       | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 81.   | ppm   | LV       | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | 4.0   | ppm   | CaCO3 BD | 27-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 954.  | umhos | BD       | 22-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm   | JT       | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .62   | ppm   | VK       | 26-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm   | BD       | 02-SEP-98     | 180       | 236.1  |
|            |                |               | FE(TR)    | 4.8   | ppm   | BD       | 02-SEP-98     | 180       | 236.1  |
|            |                |               | HCO3      | 180.  | ppm   | CaCO3 BD | 27-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 6.9   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 14.   | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 111.  | ppm   | JT       | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .26   | ppm   | LV       | 04-SEP-98     | 28        | 353.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981732-13 | 20-AUG-98      | EPRI-9808-179 | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .007  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.4   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm       | KB      | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 177.  | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 642.  | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 227.  | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | <.020 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .031  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-14 | 20-AUG-98      | EPRI-9808-164 | AS(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .006  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 60.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 82.   | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | 4.0   | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 954.  | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm       | JT      | 25-AUG-98     |           | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CU(TR)    | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .62   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|            |                |               | FE(TR)    | 4.8   | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|            |                |               | HCO3      | 182.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 7.8   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 14.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 111.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .27   | ppm       | LV      | 04-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .006  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 8.4   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm       | KB      | 28-AUG-98     |           | 6020   |
|            |                |               | SO4=      | 176.  | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 642.  | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 198.  | ppm       | MO      | 26-AUG-98     |           | 160.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981732-14 | 20-AUG-98      | EPRI-9808-164 | ZN(D)     | <.020 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | .030  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-15 | 20-AUG-98      | EPRI-9808-155 | AS(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 201.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 779.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 5560. | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | .78   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|            |                |               | HCO3      | 186.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 31.   | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | MG        | 115.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NA        | 954.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | <.050 | ppm       | LV      | 04-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.8   | pH        | BD      | 27-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 1808. | ppm       | LV      | 04-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 4323. | ppm       | JH      | 26-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 67.   | ppm       | MO      | 26-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .033  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
| L981732-16 | 20-AUG-98      | EPRI-9808-160 | AS(D)     | 2.3   | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CA        | 174.  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CD(D)     | .019  | ppm       | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | CL-       | 570.  | ppm       | LV      | 01-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 27-AUG-98     |           | 310.1  |
|            |                |               | COND.     | 5220. | umhos     | BD      | 22-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | CU(D)     | .042  | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | F-        | 7.1   | ppm       | VK      | 26-AUG-98     | 28        | 340.2  |
|            |                |               | FE(D)     | .16   | ppm       | BD      | 02-SEP-98     | 180       | 236.1  |
|            |                |               | HCO3      | 242.  | ppm CaCO3 | BD      | 27-AUG-98     | 14        | 310.1  |
|            |                |               | K         | 44.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | MG        | 33.   | ppm       | JT      | 25-AUG-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981732

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-------|---------|---------------|-----------|--------|
| L981732-16 | 20-AUG-98      | EPRI-9808-160 | NA        | 1037. | ppm   | JT      | 25-AUG-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .18   | ppm   | LV      | 04-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)     | .032  | ppm   | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | PH        | 7.7   | pH    | BD      | 27-AUG-98     |           | 150.1  |
|            |                |               | SE(D)     | .037  | ppm   | KB      | 28-AUG-98     | 180       | 6020   |
|            |                |               | SO4=      | 1667. | ppm   | LV      | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 3967. | ppm   | JH      | 26-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 116.  | ppm   | MO      | 26-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .10   | ppm   | KB      | 28-AUG-98     | 180       | 6020   |

PH is a field parameter therefore holding time cannot be met by the laboratory.  
Digestion Method--- 3005 & 6020M.

  
Approved  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981121

| LAB NO     | DATE COLLECTED | DESCRIPTION  | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981121-1 |                | Matrix Spike | AS(D)     | 100   | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | AS(TR)    | 96    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CD(D)     | 99    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CD(TR)    | 100   | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CL-       | 97    | % RECOVERY | LV      | 01-SEP-98     | 325.2     |        |
|            |                |              | CR(D)     | 90    | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | CR(TR)    | 82    | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | CU(D)     | 100   | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | CU(TR)    | 90    | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | F-        | 95    | % RECOVERY | VK      | 26-AUG-98     | 340.2     |        |
|            |                |              | FE(TR)    | 120   | % RECOVERY | BD      | 02-SEP-98     | 236.1     |        |
|            |                |              | NO2/NO3   | 100   | % RECOVERY | LV      | 04-SEP-98     | 353.2     |        |
|            |                |              | PB(D)     | 93    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | PB(TR)    | 94    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | SE(D)     | 106   | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | SE(TR)    | 95    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | SO4=      | 82    | % RECOVERY | LV      | 03-SEP-98     | 9036      |        |
|            |                |              | ZN(D)     | 92    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | ZN(TR)    | 88    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
| WG981121-2 |                | Prep Blank   | AS(D)     | <.005 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | AS(TR)    | <.005 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CA        | <1.0  | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | CD(D)     | <.005 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CD(TR)    | <.005 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |              | CL-       | <1.0  | ppm        | LV      | 01-SEP-98     | 325.2     |        |
|            |                |              | CO3       | <1.0  | ppm CaCO3  | BD      | 27-AUG-98     | 310.1     |        |
|            |                |              | COND.     | <5.0  | umhos      | BD      | 22-AUG-98     | 120.1     |        |
|            |                |              | CR(D)     | <.010 | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | CR(TR)    | <.010 | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | CU(D)     | <.025 | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | CU(TR)    | <.025 | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | F-        | <.10  | ppm        | VK      | 26-AUG-98     | 340.2     |        |
|            |                |              | FE(D)     | <.10  | ppm        | BD      | 02-SEP-98     | 236.1     |        |
|            |                |              | FE(TR)    | <.10  | ppm        | BD      | 02-SEP-98     | 236.1     |        |
|            |                |              | HCO3      | <1.0  | ppm CaCO3  | BD      | 27-AUG-98     | 310.1     |        |
|            |                |              | K         | <5.0  | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | MG        | <1.0  | ppm        | JT      | 25-AUG-98     | 6010      |        |
|            |                |              | NA        | <5.0  | ppm        | JT      | 25-AUG-98     | 6010      |        |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981121

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981121-2 |                | Prep Blank         | NO2/NO3   | <.050 | ppm        | LV      | 04-SEP-98     | 353.2     |        |
|            |                |                    | PB(D)     | <.003 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | PB(TR)    | <.003 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | <.005 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | SE(TR)    | <.005 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0  | ppm        | LV      | 03-SEP-98     | 9036      |        |
|            |                |                    | TDS       | <10.  | ppm        | JH      | 26-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0  | ppm        | MO      | 26-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | <.020 | ppm        | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | ZN(TR)    | <.020 | ppm        | KB      | 28-AUG-98     | 6020      |        |
| WG981121-3 |                | Laboratory Control | AS(D)     | 98    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | AS(TR)    | 95    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | CA        | 102   | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | CD(D)     | 100   | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | CD(TR)    | 98    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | CL-       | 104   | % RECOVERY | LV      | 01-SEP-98     | 325.2     |        |
|            |                |                    | COND.     | 100   | % RECOVERY | BD      | 22-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | 101   | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | CR(TR)    | 96    | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | CU(D)     | 108   | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | CU(TR)    | 100   | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | F-        | 97    | % RECOVERY | VK      | 26-AUG-98     | 340.2     |        |
|            |                |                    | FE(D)     | 110   | % RECOVERY | BD      | 02-SEP-98     | 236.1     |        |
|            |                |                    | FE(TR)    | 100   | % RECOVERY | BD      | 02-SEP-98     | 236.1     |        |
|            |                |                    | HCO3      | 101   | % RECOVERY | BD      | 27-AUG-98     | 310.1     |        |
|            |                |                    | K         | 108   | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | MG        | 102   | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | NA        | 111   | % RECOVERY | JT      | 25-AUG-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 89    | % RECOVERY | LV      | 04-SEP-98     | 353.2     |        |
|            |                |                    | PB(D)     | 100   | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | PB(TR)    | 110   | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | SE(D)     | 103   | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | SE(TR)    | 93    | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | SO4=      | 98    | % RECOVERY | LV      | 03-SEP-98     | 9036      |        |
|            |                |                    | TDS       | 99    | % RECOVERY | JH      | 26-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | 100   | % RECOVERY | MO      | 26-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | 100   | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |
|            |                |                    | ZN(TR)    | 104   | % RECOVERY | KB      | 28-AUG-98     | 6020      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981121

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE   | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|---------|-----------|---------|---------------|-----------|--------|
| WG981121-4 |                | Duplicate                    | AS(D)     | <1      | % RPD     | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | AS(TR)    | +/-prdl | % RPD     | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | CA        | <1      | % RPD     | JT      | 25-AUG-98     | 6010      |        |
|            |                |                              | CD(D)     | <1      | % RPD     | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | CD(TR)    | <1      | % RPD     | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | CL-       | 2.8     | % RPD     | LV      | 01-SEP-98     | 325.2     |        |
|            |                |                              | CO3       | <1      | % RPD     | BD      | 27-AUG-98     | 310.1     |        |
|            |                |                              | COND.     | <1      | % RPD     | BD      | 22-AUG-98     | 120.1     |        |
|            |                |                              | CR(D)     | <1      | % RPD     | JT      | 25-AUG-98     | 6010      |        |
|            |                |                              | CR(TR)    | <1      | % RPD     | JT      | 25-AUG-98     | 6010      |        |
|            |                |                              | CU(D)     | <1      | % RPD     | JT      | 25-AUG-98     | 6010      |        |
|            |                |                              | CU(TR)    | <1      | % RPD     | JT      | 25-AUG-98     | 6010      |        |
|            |                |                              | F-        | 8.0     | % RPD     | VK      | 26-AUG-98     | 340.2     |        |
|            |                |                              | FE(D)     | <1      | % RPD     | BD      | 02-SEP-98     | 236.1     |        |
|            |                |                              | FE(TR)    | <1      | % RPD     | BD      | 02-SEP-98     | 236.1     |        |
|            |                |                              | HCO3      | <1      | % RPD     | BD      | 27-AUG-98     | 310.1     |        |
|            |                |                              | K         | 12      | % RPD     | JT      | 25-AUG-98     | 6010      |        |
|            |                |                              | MG        | <1      | % RPD     | JT      | 25-AUG-98     | 6010      |        |
|            |                |                              | NA        | <1      | % RPD     | JT      | 25-AUG-98     | 6010      |        |
|            |                |                              | NO2/NO3   | <1      | % RPD     | LV      | 04-SEP-98     | 353.2     |        |
|            |                |                              | PB(D)     | <1      | % RPD     | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | PB(TR)    | +/-prdl | % RPD     | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | SE(D)     | <1      | % RPD     | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | SE(TR)    | <1      | % RPD     | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | SO4=      | <1      | % RPD     | LV      | 03-SEP-98     | 9036      |        |
|            |                |                              | TDS       | <1      | % RPD     | JH      | 26-AUG-98     | 160.1     |        |
|            |                |                              | TSS       | 2.6     | % RPD     | MO      | 26-AUG-98     | 160.2     |        |
|            |                |                              | ZN(D)     | <1      | % RPD     | KB      | 28-AUG-98     | 6020      |        |
|            |                |                              | ZN(TR)    | +/-prdl | % RPD     | KB      | 28-AUG-98     | 6020      |        |
| WG981121-5 |                | Practical Quantitation Limit | AS(D)     | .005    | ppm       |         |               | 6020      |        |
|            |                |                              | AS(TR)    | .005    | ppm       |         |               | 6020      |        |
|            |                |                              | CA        | 1.0     | ppm       |         |               | 6010      |        |
|            |                |                              | CD(D)     | .005    | ppm       |         |               | 6020      |        |
|            |                |                              | CD(TR)    | .005    | ppm       |         |               | 6020      |        |
|            |                |                              | CL-       | 1.0     | ppm       |         |               | 325.2     |        |
|            |                |                              | CO3       | 1.0     | ppm CaCO3 |         |               | 310.1     |        |
|            |                |                              | COND.     | 5.0     | umhos     |         |               | 120.1     |        |
|            |                |                              | CR(D)     | .010    | ppm       |         |               | 6010      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981121

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-------|---------|---------------|-----------|--------|
| WG981121-5 |                | Practical Quantitation Limit | CR(TR)    | .010  | ppm   |         |               | 6010      |        |
|            |                |                              | CU(D)     | .025  | ppm   |         |               | 6010      |        |
|            |                |                              | CU(TR)    | .025  | ppm   |         |               | 6010      |        |
|            |                |                              | F-        | .10   | ppm   |         |               | 340.2     |        |
|            |                |                              | FE(D)     | .10   | ppm   |         |               | 236.1     |        |
|            |                |                              | FE(TR)    | .10   | ppm   |         |               | 236.1     |        |
|            |                |                              | HCO3      | 1.0   | ppm   | CaCO3   |               | 310.1     |        |
|            |                |                              | K         | 5.0   | ppm   |         |               | 6010      |        |
|            |                |                              | MG        | 1.0   | ppm   |         |               | 6010      |        |
|            |                |                              | NA        | 5.0   | ppm   |         |               | 6010      |        |
|            |                |                              | NO2/NO3   | .050  | ppm   |         |               | 353.2     |        |
|            |                |                              | PB(D)     | .003  | ppm   |         |               | 6020      |        |
|            |                |                              | PB(TR)    | .003  | ppm   |         |               | 6020      |        |
|            |                |                              | SE(D)     | .005  | ppm   |         |               | 6020      |        |
|            |                |                              | SE(TR)    | .005  | ppm   |         |               | 6020      |        |
|            |                |                              | SO4=      | 2.0   | ppm   |         |               | 9036      |        |
|            |                |                              | TDS       | 10.   | ppm   |         |               | 160.1     |        |
|            |                |                              | TSS       | 1.0   | ppm   |         |               | 160.2     |        |
|            |                |                              | ZN(D)     | .020  | ppm   |         |               | 6020      |        |
|            |                |                              | ZN(TR)    | .020  | ppm   |         |               | 6020      |        |

Approved

Reviewer

## CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

| PROJ. NO.             |      | PROJECT NAME         |  | NO. OF CONTAINERS |      |       |      |               |  |                |   |                                |            |                                  |  |      | REMARKS |  |  |  |  |  |  |  |
|-----------------------|------|----------------------|--|-------------------|------|-------|------|---------------|--|----------------|---|--------------------------------|------------|----------------------------------|--|------|---------|--|--|--|--|--|--|--|
| 0931-                 |      | ASARCO - EL PASO, TX |  |                   |      |       |      |               |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
| SAMPLERS: (Signature) |      |                      |  | DATE              | TIME | COMP. | GRAB | SAMPLE NUMBER |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
| Douglas M. Solon      |      |                      |  |                   |      |       |      |               |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       |      |                      |  |                   |      |       |      |               |  | Commons UF/RAW | Nutrients UF/H <sub>2</sub> SO <sub>4</sub> | Diss. Metal F/HNO <sub>3</sub> | CN UF/NaOH | Total Metals UF/HNO <sub>3</sub> | Total Recoverable Metals UF/HNO <sub>3</sub> | BTEX | TPH     |  |  |  |  |  |  |  |
| 8-19-98               | 845  |                      |  | EPR1-9808-146     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       | 920  |                      |  | EPR1-9808-150     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       | 930  |                      |  | EPR1-9808-180     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       | 1000 |                      |  | EPR1-9808-144     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       | 1100 |                      |  | EPR1-9808-151     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       | 1315 |                      |  | EPR1-9808-143     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       | 1345 |                      |  | EPR1-9808-147     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       | 1430 |                      |  | EPR1-9808-145     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       | 1530 |                      |  | EPR1-9808-149     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
|                       | 1615 |                      |  | EPR1-9808-148     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |
| 8-20-98               | 900  |                      |  | EPR1-9808-169     | 4    | ✓     | ✓    | ✓             |  |                |   |                                |            | ✓                                |  |      |         |  |  |  |  |  |  |  |
|                       | 930  |                      |  | EPR1-9808-170     | 4    | ✓     | ✓    | ✓             |  |                |   |                                |            | ✓                                |  |      |         |  |  |  |  |  |  |  |
|                       | 935  |                      |  | EPR1-9808-179     | 4    | ✓     | ✓    | ✓             |  |                |   |                                |            | ✓                                |  |      |         |  |  |  |  |  |  |  |
|                       | 1000 |                      |  | EPR1-9808-164     | 4    | ✓     | ✓    | ✓             |  |                |   |                                |            | ✓                                |  |      |         |  |  |  |  |  |  |  |
|                       | 1040 |                      |  | EPR1-9808-155     | 3    | ✓     | ✓    | ✓             |  |                |   |                                |            |                                  |  |      |         |  |  |  |  |  |  |  |

Relinquished (Signature) *Douglas M. Solon*

Relinquished (Signature)

Relinquished (Signature)

Date/Time: 8-20-98 1600

Date/Time

Date/Time

Received by: (Signature)

Received by: (Signature)

Received for Laboratory by: (Signature) *F. Hatter*

Lab: TSC - SALT LAKE CITY, UT

Date/Time: 8-21-98 10:30

P.O. #

Enclosed: ☒ Parameter sheet w/detection limits  
☐ QA/QC standard mixing instructions  
☒ Cover letter  
☐ Other

Shipped via: Bus, Red Ex, UPS

Air Bill #

HFORM-1-4/95

Return results & electronic copy to:

Split Samples:  
☐ Accepted ☐ Declined

**HYDROCARBONS, II C.**

| PROJ. NO.  |      | PROJECT NAME    |      |  | NO.<br>OF<br>CON-<br>TAINERS |                          |   |   |            |  |  |      |     |  |  |  |  |  |  |  |  |
|--|------|-----------------|------|--|------------------------------|--------------------------|---|---|------------|--|--|------|-----|--|--|--|--|--|--|--|--|
| SAMPLERS: (Signature)<br><i>Douglas M. Solon</i>           |      |                 |      |  |                              | Commons UF/RAW           | Nutrients UF/H <sub>2</sub> SO <sub>4</sub> | Diss. Metal F/HNO <sub>3</sub>  | CN UF/NaOH | Total Metals UF/HNO <sub>3</sub>                                 | Total Recoverable Metals UF/HNO <sub>3</sub> | BTEX | TPH |  |  |  |  |  |  |  |  |
| DATE   | TIME | COMP.           | GRAB | SAMPLE NUMBER                              |                              |                          |   |   |            |  |  |      |     |  |  |  |  |  |  |  |  |
| 8-20-98  | 1100 |                 |      | EPR1-9808-160                              | 3                            | ✓                        | ✓   | ✓   |            |  |  |      |     |  |  |  |  |  |  |  |  |
| (The following rows are crossed out with a diagonal line.) |      |                 |      |  |                              |                          |   |   |            |  |  |      |     |  |  |  |  |  |  |  |  |
| Relinquished (Signature)                                   |      | Date/Time       |      | Received by: (Signature)                   |                              | Lab                      |   | P.O. #  |            | Shipped via: Bus, Fed Ex, UPS<br>Other _____<br>Air Bill # _____ |  |      |     |  |  |  |  |  |  |  |  |
| <i>Douglas M. Solon</i>                                    |      | 8-20-98<br>1600 |      |  |                              | TSC - SALT LAKE CITY, UT |   |   |            |  |  |      |     |  |  |  |  |  |  |  |  |
| Relinquished (Signature)                                   |      | Date/Time       |      | Received by: (Signature)                   |                              | Remarks                  |   |   |            |  |  |      |     |  |  |  |  |  |  |  |  |
|  |      |                 |      |  |                              |                          |   |   |            |  |  |      |     |  |  |  |  |  |  |  |  |
| Relinquished (Signature)                                   |      | Date/Time       |      | Received for Laboratory by:<br>(Signature) |                              | Date/Time                |   | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits<br><input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter<br><input type="checkbox"/> Other _____ |            |  |  |      |     |  |  |  |  |  |  |  |  |
|  |      |                 |      | <i>Motter</i>                              |                              | 8-21-98 10:30            |   |   |            |  |  |      |     |  |  |  |  |  |  |  |  |

HFORM-1-

Return results & electronic copy to:

Split Samples:  
☐ Accepted ☐ Declined

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981792

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |       |
|-----------|----------------|---------------|-----------|--------|-------|---------|---------------|-----------|--------|-------|
| L981792-1 | 24-AUG-98      | EPRI-9808-123 | AS(D)     | 4.1    | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
|           |                |               | CA        | 486.   | ppm   | JT      | 01-SEP-98     | 180       | 6010   |       |
|           |                |               | CD(D)     | <.005  | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
|           |                |               | CL-       | 922.   | ppm   | LV      | 10-SEP-98     | 28        | 325.2  |       |
|           |                |               | CO3       | <1.0   | ppm   | CaCO3   | BD            | 02-SEP-98 |        | 310.1 |
|           |                |               | COND.     | 11600. | umhos | BD      | 28-AUG-98     | 28        | 120.1  |       |
|           |                |               | CR(D)     | <.010  | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
|           |                |               | CU(D)     | <.025  | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
|           |                |               | F-        | 5.0    | ppm   | LV      | 11-SEP-98     | 28        | 340.2  |       |
|           |                |               | FE(D)     | 1.4    | ppm   | JT      | 11-SEP-98     | 180       | 6010   |       |
|           |                |               | HCO3      | 1106.  | ppm   | CaCO3   | BD            | 02-SEP-98 | 14     | 310.1 |
|           |                |               | K         | 247.   | ppm   | JT      | 01-SEP-98     | 180       | 6010   |       |
|           |                |               | MG        | 193.   | ppm   | JT      | 01-SEP-98     | 180       | 6010   |       |
|           |                |               | NA        | 1700.  | ppm   | BD      | 03-SEP-98     | 180       | 273.1  |       |
|           |                |               | NO2/NO3   | <.050  | ppm   | LV      | 11-SEP-98     | 28        | 353.2  |       |
|           |                |               | PB(D)     | <.003  | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
|           |                |               | PH        | 7.0    | pH    | BD      | 02-SEP-98     |           | 150.1  |       |
|           |                |               | SE(D)     | .046   | ppm   | KB      | 10-SEP-98     | 180       | 6020   |       |
|           |                |               | SO4=      | 4867.  | ppm   | LV      | 03-SEP-98     | 28        | 9036   |       |
|           |                |               | TDS       | 9442.  | ppm   | JH      | 31-AUG-98     | 7         | 160.1  |       |
|           |                |               | TSS       | 17.    | ppm   | MO      | 31-AUG-98     |           | 160.2  |       |
|           |                |               | ZN(D)     | .030   | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
| L981792-2 | 24-AUG-98      | EPRI-9808-126 | AS(D)     | .011   | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
|           |                |               | CA        | 460.   | ppm   | JT      | 01-SEP-98     | 180       | 6010   |       |
|           |                |               | CD(D)     | <.005  | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
|           |                |               | CL-       | 732.   | ppm   | LV      | 10-SEP-98     | 28        | 325.2  |       |
|           |                |               | CO3       | <1.0   | ppm   | CaCO3   | BD            | 02-SEP-98 |        | 310.1 |
|           |                |               | COND.     | 8620.  | umhos | BD      | 28-AUG-98     | 28        | 120.1  |       |
|           |                |               | CR(D)     | <.010  | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
|           |                |               | CU(D)     | <.025  | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |
|           |                |               | F-        | 1.6    | ppm   | LV      | 11-SEP-98     | 28        | 340.2  |       |
|           |                |               | FE(D)     | .13    | ppm   | JT      | 11-SEP-98     | 180       | 6010   |       |
|           |                |               | HCO3      | 366.   | ppm   | CaCO3   | BD            | 02-SEP-98 | 14     | 310.1 |
|           |                |               | K         | 12.    | ppm   | JT      | 01-SEP-98     | 180       | 6010   |       |
|           |                |               | MG        | 193.   | ppm   | JT      | 01-SEP-98     | 180       | 6010   |       |
|           |                |               | NA        | 1300.  | ppm   | BD      | 03-SEP-98     | 180       | 273.1  |       |
|           |                |               | NO2/NO3   | 117.   | ppm   | LV      | 11-SEP-98     | 28        | 353.2  |       |
|           |                |               | PB(D)     | <.003  | ppm   | KB      | 08-SEP-98     | 180       | 6020   |       |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981792

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981792-2 | 24-AUG-98      | EPRI-9808-126 | PH        | 7.5   | pH        | BD      | 02-SEP-98     | 150.1     |        |
|           |                |               | SE(D)     | .26   | ppm       | KB      | 10-SEP-98     | 180       | 6020   |
|           |                |               | SO4=      | 3524. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 7198. | ppm       | JH      | 31-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 99.   | ppm       | MO      | 31-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .022  | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
| L981792-3 | 24-AUG-98      | EPRI-9808-130 | AS(D)     | .006  | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CA        | 383.  | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CL-       | 651.  | ppm       | LV      | 10-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 02-SEP-98     |           | 310.1  |
|           |                |               | COND.     | 7330. | umhos     | BD      | 28-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | F-        | 1.9   | ppm       | LV      | 11-SEP-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .27   | ppm       | JT      | 11-SEP-98     | 180       | 6010   |
|           |                |               | HCO3      | 500.  | ppm CaCO3 | BD      | 02-SEP-98     | 14        | 310.1  |
|           |                |               | K         | 22.   | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 152.  | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | NA        | 1000. | ppm       | BD      | 03-SEP-98     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 33.   | ppm       | LV      | 11-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | PH        | 7.5   | pH        | BD      | 02-SEP-98     |           | 150.1  |
|           |                |               | SE(D)     | .14   | ppm       | KB      | 10-SEP-98     | 180       | 6020   |
|           |                |               | SO4=      | 2837. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 5862. | ppm       | JH      | 31-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 15.   | ppm       | MO      | 31-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
| L981792-4 | 24-AUG-98      | EPRI-9808-122 | AS(D)     | .60   | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CA        | 152.  | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CL-       | 269.  | ppm       | LV      | 10-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 02-SEP-98     |           | 310.1  |
|           |                |               | COND.     | 3250. | umhos     | BD      | 28-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | F-        | .99   | ppm       | LV      | 11-SEP-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981792

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-------|----------|---------------|-----------|--------|
| L981792-4 | 24-AUG-98      | EPRI-9808-122 | FE(D)     | .28    | ppm   | JT       | 11-SEP-98     | 180       | 6010   |
|           |                |               | HCO3      | 1060.  | ppm   | CaCO3 BD | 02-SEP-98     | 14        | 310.1  |
|           |                |               | K         | 15.    | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 95.    | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | NA        | 614.   | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 1.8    | ppm   | LV       | 11-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | PH        | 7.7    | pH    | BD       | 02-SEP-98     |           | 150.1  |
|           |                |               | SE(D)     | <.010* | ppm   | KB       | 10-SEP-98     | 180       | 6020   |
|           |                |               | SO4=      | 548.   | ppm   | LV       | 08-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 2176.  | ppm   | JH       | 31-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 1172.  | ppm   | MO       | 31-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
| L981792-5 | 24-AUG-98      | EPRI-9808-110 | AS(D)     | .011   | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | CA        | 101.   | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | CL-       | 691.   | ppm   | LV       | 10-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm   | CaCO3 BD | 02-SEP-98     |           | 310.1  |
|           |                |               | COND.     | 6840.  | umhos | BD       | 28-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | F-        | 3.9    | ppm   | LV       | 11-SEP-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .14    | ppm   | JT       | 11-SEP-98     | 180       | 6010   |
|           |                |               | HCO3      | 952.   | ppm   | CaCO3 BD | 02-SEP-98     | 14        | 310.1  |
|           |                |               | K         | 104.   | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 81.    | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | NA        | 1226.  | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 29.    | ppm   | LV       | 11-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | PH        | 7.8    | pH    | BD       | 02-SEP-98     |           | 150.1  |
|           |                |               | SE(D)     | .073   | ppm   | KB       | 10-SEP-98     | 180       | 6020   |
|           |                |               | SO4=      | 1571.  | ppm   | LV       | 03-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3958.  | ppm   | JH       | 31-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 1162.  | ppm   | MO       | 31-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .089   | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
| L981792-6 | 24-AUG-98      | EPRI-9808-109 | AS(D)     | .032   | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | CA        | 52.    | ppm   | JT       | 01-SEP-98     | 180       | 6010   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981792

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-------|----------|---------------|-----------|--------|
| L981792-6 | 24-AUG-98      | EPRI-9808-109 | CD(D)     | <.005  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | CL-       | 653.   | ppm   | LV       | 10-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm   | CaCO3 BD | 02-SEP-98     |           | 310.1  |
|           |                |               | COND.     | 5680.  | umhos | BD       | 28-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | F-        | 5.5    | ppm   | LV       | 11-SEP-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .32    | ppm   | JT       | 11-SEP-98     | 180       | 6010   |
|           |                |               | HCO3      | 1692.  | ppm   | CaCO3 BD | 02-SEP-98     | 14        | 310.1  |
|           |                |               | K         | 46.    | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 46.    | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | NA        | 1033.  | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050  | ppm   | LV       | 11-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | PH        | 8.0    | pH    | BD       | 02-SEP-98     |           | 150.1  |
|           |                |               | SE(D)     | .019   | ppm   | KB       | 10-SEP-98     | 180       | 6020   |
|           |                |               | SO4=      | 321.   | ppm   | LV       | 08-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3351.  | ppm   | JH       | 31-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 47.    | ppm   | MO       | 31-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | .020   | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
| L981792-7 | 24-AUG-98      | EPRI-9808-112 | AS(D)     | .060   | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | CA        | 180.   | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | CL-       | 970.   | ppm   | LV       | 10-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm   | CaCO3 BD | 02-SEP-98     |           | 310.1  |
|           |                |               | COND.     | 5200.  | umhos | BD       | 28-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | F-        | 2.5    | ppm   | LV       | 11-SEP-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .35    | ppm   | JT       | 11-SEP-98     | 180       | 6010   |
|           |                |               | HCO3      | 1056.  | ppm   | CaCO3 BD | 02-SEP-98     | 14        | 310.1  |
|           |                |               | K         | 28.    | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 56.    | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | NA        | 1064.  | ppm   | JT       | 01-SEP-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050  | ppm   | LV       | 11-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm   | KB       | 08-SEP-98     | 180       | 6020   |
|           |                |               | PH        | 7.3    | pH    | BD       | 02-SEP-98     |           | 150.1  |
|           |                |               | SE(D)     | <.010* | ppm   | KB       | 10-SEP-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

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Water and Solid Waste (Project 3220)

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|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981792-7 | 24-AUG-98      | EPRI-9808-112 | SO4=      | 264.  | ppm       | LV      | 08-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3172. | ppm       | JH      | 31-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 17.   | ppm       | MO      | 31-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
| L981792-8 | 24-AUG-98      | EPRI-9808-113 | AS(D)     | 5.1   | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CA        | 114.  | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CL-       | 853.  | ppm       | LV      | 10-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 02-SEP-98     |           | 310.1  |
|           |                |               | COND.     | 5420. | umhos     | BD      | 28-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | F-        | 1.4   | ppm       | LV      | 11-SEP-98     | 28        | 340.2  |
|           |                |               | FE(D)     | 9.7   | ppm       | JT      | 11-SEP-98     | 180       | 6010   |
|           |                |               | HCO3      | 1110. | ppm CaCO3 | BD      | 02-SEP-98     | 14        | 310.1  |
|           |                |               | K         | 70.   | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | MG        | 48.   | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | NA        | 1084. | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050 | ppm       | LV      | 11-SEP-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | PH        | 7.2   | pH        | BD      | 02-SEP-98     |           | 150.1  |
|           |                |               | SE(D)     | .051  | ppm       | KB      | 10-SEP-98     | 180       | 6020   |
|           |                |               | SO4=      | 522.  | ppm       | LV      | 08-SEP-98     | 28        | 9036   |
|           |                |               | TDS       | 3362. | ppm       | JH      | 31-AUG-98     | 7         | 160.1  |
|           |                |               | TSS       | 3199. | ppm       | MO      | 31-AUG-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
| L981792-9 | 27-AUG-98      | EPRI-9808-120 | AS(D)     | 61.   | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CA        | 523.  | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|           |                |               | CD(D)     | .008  | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CL-       | 755.  | ppm       | LV      | 10-SEP-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 02-SEP-98     |           | 310.1  |
|           |                |               | COND.     | 9980. | umhos     | BD      | 28-AUG-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|           |                |               | F-        | 20.   | ppm       | LV      | 11-SEP-98     | 28        | 340.2  |
|           |                |               | FE(D)     | 77.   | ppm       | JT      | 11-SEP-98     | 180       | 6010   |
|           |                |               | HCO3      | 600.  | ppm CaCO3 | BD      | 02-SEP-98     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981792

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER  | VALUE     | UNITS         | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|------------|-----------|---------------|---------|---------------|-----------|--------|
| L981792-9  | 27-AUG-98      | EPRI-9808-120 | K          | 192.      | ppm           | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | MG         | 318.      | ppm           | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | NA         | 1100.     | ppm           | BD      | 03-SEP-98     | 180       | 6010   |
|            |                |               | NO2/NO3    | <.050     | ppm           | LV      | 11-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)      | <.003     | ppm           | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | PH         | 6.4       | pH            | BD      | 02-SEP-98     |           | 150.1  |
|            |                |               | SE(D)      | .068      | ppm           | KB      | 10-SEP-98     | 180       | 6020   |
|            |                |               | SO4=       | 4465.     | ppm           | LV      | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS        | 8648.     | ppm           | JH      | 31-AUG-98     | 7         | 160.1  |
|            |                |               | TSS        | 413.      | ppm           | MO      | 31-AUG-98     |           | 160.2  |
| ZN(D)      | 35.            | ppm           | KB         | 08-SEP-98 | 180           | 6020    |               |           |        |
| L981792-10 | 27-AUG-98      | EPRI-9808-117 | AS(D)      | 417.      | ppm           | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | CA         | 515.      | ppm           | JT      | 11-SEP-98     | 180       | 6010   |
|            |                |               | CD(D)      | 40.       | ppm           | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | CL-        | 822.      | ppm           | LV      | 10-SEP-98     | 28        | 325.2  |
|            |                |               | CO3        | <1.0      | ppm CaCO3     | BD      | 02-SEP-98     |           | 310.1  |
|            |                |               | COND.      | 11000.    | umhos         | BD      | 28-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)      | <.050*    | ppm           | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | CU(D)      | <.10*     | ppm           | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | F-         | 27.       | ppm           | LV      | 11-SEP-98     | 28        | 340.2  |
|            |                |               | FE(D)      | 1833.     | ppm           | JT      | 11-SEP-98     | 180       | 6010   |
|            |                |               | HCO3       | <1.0      | ppm CaCO3     | BD      | 02-SEP-98     | 14        | 310.1  |
|            |                |               | K          | 205.      | ppm           | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | MG         | 270.      | ppm           | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | NA         | 1045.     | ppm           | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | NO2/NO3    | <.25*     | ppm           | LV      | 11-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)      | .048      | ppm           | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | PH         | 3.8       | pH            | BD      | 02-SEP-98     |           | 150.1  |
|            |                |               | SE(D)      | <.10*     | ppm           | KB      | 10-SEP-98     | 180       | 6020   |
|            |                |               | SO4=       | 8448.     | ppm           | LV      | 08-SEP-98     | 28        | 9036   |
|            |                |               | TDS        | 16111.    | ppm           | JH      | 31-AUG-98     | 7         | 160.1  |
|            |                |               | TSS        | 254.      | ppm           | MO      | 31-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)      | 1499.     | ppm           | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | L981792-11 | 27-AUG-98 | EPRI-9808-104 | AS(D)   | 1.5           | ppm       | KB     |
| CA         | 428.           | ppm           |            |           |               | JT      | 01-SEP-98     | 180       | 6010   |
| CD(D)      | .019           | ppm           |            |           |               | KB      | 08-SEP-98     | 180       | 6020   |
| CL-        | 597.           | ppm           |            |           |               | LV      | 10-SEP-98     | 28        | 325.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981792

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L981792-11 | 27-AUG-98      | EPRI-9808-104 | CO3       | <1.0  | ppm CaCO3 | BD      | 02-SEP-98     |           | 310.1  |
|            |                |               | COND.     | 6360. | umhos     | BD      | 28-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | F-        | 1.0   | ppm       | LV      | 11-SEP-98     | 28        | 340.2  |
|            |                |               | FE(D)     | .88   | ppm       | JT      | 11-SEP-98     | 180       | 6010   |
|            |                |               | HCO3      | 596.  | ppm CaCO3 | BD      | 02-SEP-98     | 14        | 310.1  |
|            |                |               | K         | 12.   | ppm       | BD      | 10-SEP-98     | 180       | 6010   |
|            |                |               | MG        | 147.  | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | NA        | 1172. | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 33.   | ppm       | LV      | 11-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | PH        | 7.3   | pH        | BD      | 02-SEP-98     |           | 150.1  |
|            |                |               | SE(D)     | .47   | ppm       | KB      | 10-SEP-98     | 180       | 6020   |
|            |                |               | SO4=      | 2229. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 5362. | ppm       | JH      | 31-AUG-98     | 7         | 160.1  |
|            |                |               | TSS       | 174.  | ppm       | MO      | 31-AUG-98     |           | 160.2  |
|            |                |               | ZN(D)     | .62   | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
| L981792-12 | 27-AUG-98      | EPRI-9808-175 | AS(D)     | .78   | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | CA        | 213.  | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | CL-       | 615.  | ppm       | LV      | 10-SEP-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 02-SEP-98     |           | 310.1  |
|            |                |               | COND.     | 4720. | umhos     | BD      | 28-AUG-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | F-        | 2.0   | ppm       | LV      | 11-SEP-98     | 28        | 340.2  |
|            |                |               | FE(D)     | .15   | ppm       | JT      | 11-SEP-98     | 180       | 6010   |
|            |                |               | HCO3      | 517.  | ppm CaCO3 | BD      | 02-SEP-98     | 14        | 310.1  |
|            |                |               | K         | 32.   | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | MG        | 69.   | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | NA        | 892.  | ppm       | JT      | 01-SEP-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 13.   | ppm       | LV      | 11-SEP-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 08-SEP-98     | 180       | 6020   |
|            |                |               | PH        | 7.3   | pH        | BD      | 02-SEP-98     |           | 150.1  |
|            |                |               | SE(D)     | .61   | ppm       | KB      | 10-SEP-98     | 180       | 6020   |
|            |                |               | SO4=      | 1242. | ppm       | LV      | 03-SEP-98     | 28        | 9036   |
|            |                |               | TDS       | 3357. | ppm       | JH      | 31-AUG-98     | 7         | 160.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

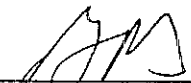
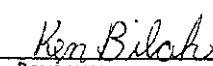
Water and Solid Waste (Project 3220)

Batch No: L981792

| LAB NO     | DATE<br>COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST | DATE<br>ANALYZED | HOLD<br>DAYS | METHOD |
|------------|-------------------|---------------|-----------|-------|-------|---------|------------------|--------------|--------|
| L981792-12 | 27-AUG-98         | EPRI-9808-175 | TSS       | 40.   | ppm   | MO      | 31-AUG-98        |              |        |
|            |                   |               | ZN(D)     | .040  | ppm   | KB      | 08-SEP-98        | 180          | 6020   |

PH is a field parameter therefore holding time cannot be met by the laboratory.

\* =detection limit for some parameters has been raised due to matrix interference.

  
Approved  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981123

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981123-1 |                | Matrix Spike       | AS(D)     | 108   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CD(D)     | 101   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CL-       | 98    | % RECOVERY | LV      | 10-SEP-98     | 325.2     |        |
|            |                |                    | CR(D)     | 110   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CU(D)     | 98    | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | F-        | 93    | % RECOVERY | LV      | 11-SEP-98     | 340.2     |        |
|            |                |                    | FE(D)     | 116   | % RECOVERY | JT      | 11-SEP-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 97    | % RECOVERY | LV      | 11-SEP-98     | 353.2     |        |
|            |                |                    | PB(D)     | 109   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | SE(D)     | 90    | % RECOVERY | KB      | 10-SEP-98     | 6020      |        |
|            |                |                    | SO4=      | 94    | % RECOVERY | LV      | 03-SEP-98     | 9036      |        |
|            |                |                    | ZN(D)     | 114   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
| WG981123-2 |                | Prep Blank         | AS(D)     | <.005 | ppm        | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CA        | <1.0  | ppm        | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | CD(D)     | <.005 | ppm        | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CL-       | <1.0  | ppm        | LV      | 10-SEP-98     | 325.2     |        |
|            |                |                    | CO3       | <1.0  | ppm CaCO3  | BD      | 02-SEP-98     | 310.1     |        |
|            |                |                    | COND.     | <5.0  | umhos      | BD      | 28-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | <.010 | ppm        | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CU(D)     | <.025 | ppm        | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | F-        | <.10  | ppm        | LV      | 11-SEP-98     | 340.2     |        |
|            |                |                    | FE(D)     | <.10  | ppm        | JT      | 11-SEP-98     | 6010      |        |
|            |                |                    | HCO3      | <1.0  | ppm CaCO3  | BD      | 02-SEP-98     | 310.1     |        |
|            |                |                    | K         | <5.0  | ppm        | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | MG        | <1.0  | ppm        | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | NA        | <5.0  | ppm        | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050 | ppm        | LV      | 11-SEP-98     | 353.2     |        |
|            |                |                    | PB(D)     | <.003 | ppm        | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | SE(D)     | <.005 | ppm        | KB      | 10-SEP-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0  | ppm        | LV      | 03-SEP-98     | 9036      |        |
|            |                |                    | TDS       | <10.  | ppm        | JH      | 31-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0  | ppm        | MO      | 31-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | <.020 | ppm        | KB      | 08-SEP-98     | 6020      |        |
| WG981123-3 |                | Laboratory Control | AS(D)     | 100   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CA        | 104   | % RECOVERY | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | CD(D)     | 110   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CL-       | 101   | % RECOVERY | LV      | 10-SEP-98     | 325.2     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981123

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981123-3 |                | Laboratory Control | COND.     | 100   | % RECOVERY | BD      | 28-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | 100   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CU(D)     | 103   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | F-        | 100   | % RECOVERY | LV      | 11-SEP-98     | 340.2     |        |
|            |                |                    | FE(D)     | 89    | % RECOVERY | JT      | 11-SEP-98     | 6010      |        |
|            |                |                    | HCO3      | 101   | % RECOVERY | BD      | 02-SEP-98     | 310.1     |        |
|            |                |                    | K         | 107   | % RECOVERY | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | MG        | 102   | % RECOVERY | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | NA        | 108   | % RECOVERY | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 104   | % RECOVERY | LV      | 11-SEP-98     | 353.2     |        |
|            |                |                    | PB(D)     | 102   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | SE(D)     | 100   | % RECOVERY | KB      | 10-SEP-98     | 6020      |        |
|            |                |                    | SO4=      | 99    | % RECOVERY | LV      | 03-SEP-98     | 9036      |        |
|            |                |                    | TDS       | 97    | % RECOVERY | JH      | 31-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | 103   | % RECOVERY | MO      | 31-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | 103   | % RECOVERY | KB      | 08-SEP-98     | 6020      |        |
| WG981123-4 |                | Duplicate          | AS(D)     | 6.9   | % RPD      | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CA        | <1    | % RPD      | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | CD(D)     | 2.7   | % RPD      | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CL-       | <1    | % RPD      | LV      | 10-SEP-98     | 325.2     |        |
|            |                |                    | CO3       | <1    | % RPD      | BD      | 02-SEP-98     | 310.1     |        |
|            |                |                    | COND.     | <1    | % RPD      | BD      | 28-AUG-98     | 120.1     |        |
|            |                |                    | CR(D)     | <1    | % RPD      | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | CU(D)     | <1    | % RPD      | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | F-        | <1    | % RPD      | LV      | 11-SEP-98     | 340.2     |        |
|            |                |                    | FE(D)     | 2.3   | % RPD      | JT      | 11-SEP-98     | 6010      |        |
|            |                |                    | HCO3      | <1    | % RPD      | BD      | 02-SEP-98     | 310.1     |        |
|            |                |                    | K         | 13    | % RPD      | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | MG        | <1    | % RPD      | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | NA        | <1    | % RPD      | JT      | 01-SEP-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <1    | % RPD      | LV      | 11-SEP-98     | 353.2     |        |
|            |                |                    | PB(D)     | <1    | % RPD      | KB      | 08-SEP-98     | 6020      |        |
|            |                |                    | SE(D)     | <1    | % RPD      | KB      | 10-SEP-98     | 6020      |        |
|            |                |                    | SO4=      | 3.9   | % RPD      | LV      | 03-SEP-98     | 9036      |        |
|            |                |                    | TDS       | 1.9   | % RPD      | JH      | 31-AUG-98     | 160.1     |        |
|            |                |                    | TSS       | 2.8   | % RPD      | MO      | 31-AUG-98     | 160.2     |        |
|            |                |                    | ZN(D)     | <1    | % RPD      | KB      | 08-SEP-98     | 6020      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981123

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981123-5 |                | Practical Quantitation Limit | AS(D)     | .005  | ppm        |         |               |           | 6020   |
|            |                |                              | CA        | 1.0   | ppm        |         |               |           | 6010   |
|            |                |                              | CD(D)     | .005  | ppm        |         |               |           | 6020   |
|            |                |                              | CL-       | 1.0   | ppm        |         |               |           | 325.2  |
|            |                |                              | CO3       | 1.0   | ppm CaCO3  |         |               |           | 310.1  |
|            |                |                              | COND.     | 5.0   | umhos      |         |               |           | 120.1  |
|            |                |                              | CR(D)     | .010  | ppm        |         |               |           | 6020   |
|            |                |                              | CU(D)     | .025  | ppm        |         |               |           | 6020   |
|            |                |                              | F-        | .10   | ppm        |         |               |           | 340.2  |
|            |                |                              | FE(D)     | .10   | ppm        |         |               |           | 6010   |
|            |                |                              | HCO3      | 1.0   | ppm CaCO3  |         |               |           | 310.1  |
|            |                |                              | K         | 5.0   | ppm        |         |               |           | 6010   |
|            |                |                              | MG        | 1.0   | ppm        |         |               |           | 6010   |
|            |                |                              | NA        | 5.0   | ppm        |         |               |           | 6010   |
|            |                |                              | NO2/NO3   | .050  | ppm        |         |               |           | 353.2  |
|            |                |                              | PB(D)     | .003  | ppm        |         |               |           | 6020   |
|            |                |                              | SE(D)     | .005  | ppm        |         |               |           | 6020   |
|            |                |                              | SO4=      | 2.0   | ppm        |         |               |           | 9036   |
|            |                |                              | TDS       | 10.   | ppm        |         |               |           | 160.1  |
|            |                |                              | TSS       | 1.0   | ppm        |         |               |           | 160.2  |
|            |                |                              | ZN(D)     | .020  | ppm        |         |               |           | 6020   |
| WG981123-6 |                | Matrix Spike                 | PB(D)     | 103   | % RECOVERY | JT      | 01-SEP-98     |           | 6010   |
| WG981123-7 |                | Prep Blank                   | NA        | <5.0  | ppm        | BD      | 03-SEP-98     |           | 273.1  |
|            |                |                              | PB(D)     | <.020 | ppm        | JT      | 01-SEP-98     |           | 6010   |
| WG981123-8 |                | Laboratory Control Samples   | NA        | 100   | % RECOVERY | BD      | 03-SEP-98     |           | 273.1  |
|            |                |                              | PB(D)     | 104   | % RECOVERY | JT      | 01-SEP-98     |           | 6010   |
| WG981123-9 |                | Duplicate                    | NA        | <1    | % RPD      | BD      | 03-SEP-98     |           | 273.1  |
|            |                |                              | PB(D)     | <1    | % RPD      | JT      | 01-SEP-98     |           | 6010   |



ASARCO TECHNICAL SERVICES CENTER

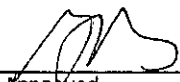
ANALYTICAL DATA REPORT

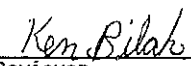
El Paso

Water and Solid Waste (Project )

Batch No: WG981123

| LAB NO | DATE<br>COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE<br>ANALYZED | HOLD<br>DAYS | METHOD |
|--------|-------------------|-------------|-----------|-------|-------|---------|------------------|--------------|--------|
|--------|-------------------|-------------|-----------|-------|-------|---------|------------------|--------------|--------|

  
Approved

  
Reviewer

11/11/1963

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 8574 • (520) 544-3150 • FAX (520) 544-3190  
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[illegible]



## **SECTION I-2**

### **LABORATORY REPORTS FOR WATER SAMPLES,**

**FALL 1998**



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO    | DATE COLLECTED | DESCRIPTION    | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|----------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982291-1 | 03-NOV-98      | EPRI-9811-101. | AS (D)    | .069  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | CA        | 77.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |                | CD (D)    | <.005 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | CL-       | 328.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |                | CO3       | <1.0  | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|           |                |                | COND.     | 3010. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|           |                |                | CR (D)    | <.010 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | CU (D)    | .030  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | F-        | 2.7   | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|           |                |                | FE (D)    | .16   | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|           |                |                | HCO3      | 764.  | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|           |                |                | K         | 11.   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|           |                |                | MG        | 30.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |                | NA        | 577.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |                | NO2/NO3   | <.050 | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |                | PB (D)    | .005  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | PH        | 7.6   | pH        | DC      | 09-NOV-98     |           | 150.1  |
|           |                |                | SE (D)    | <.005 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | SO4=      | 331.  | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|           |                |                | TDS       | 5401. | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|           |                |                | TSS       | 71.   | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|           |                |                | ZN (D)    | .033  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-2 | 03-NOV-98      | EPRI-9811-102  | AS (D)    | .025  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | CA        | 364.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |                | CD (D)    | <.005 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | CL-       | 860.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |                | CO3       | <1.0  | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|           |                |                | COND.     | 7120. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|           |                |                | CR (D)    | <.010 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | CU (D)    | <.025 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |                | F-        | 1.5   | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|           |                |                | FE (D)    | <.10  | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|           |                |                | HCO3      | 372.  | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|           |                |                | K         | 30.   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|           |                |                | MG        | 110.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |                | NA        | 1348. | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |                | NO2/NO3   | 4.3   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |                | PB (D)    | <.003 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | BGLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L982291-2 | 03-NOV-98      | EPRI-9811-102 | PH        | 7.7    | pH        | DC      | 09-NOV-98     | 150.1     |        |
|           |                |               | SE(D)     | .035   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2205.  | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 5710.  | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 7.5    | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | .022   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-3 | 03-NOV-98      | EPRI-9811-103 | AS(D)     | .049   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 83.    | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 322.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 2660.  | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.9    | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .74    | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 237.   | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 9.0    | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 27.    | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 446.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050  | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.6    | pH        | DC      | 09-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | <.005  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 567.   | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 1790.  | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 18.    | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-4 | 04-NOV-98      | EPRI-9811-108 | AS(D)     | .92    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 493.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | .034   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 739.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 10370. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 2.5    | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST  | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-------|----------|---------------|-----------|--------|
| L982291-4 | 04-NOV-98      | EPRI-9811-108 | FE (D)    | <.10  | ppm   | BD       | 18-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 296.  | ppm   | CaCO3 DC | 09-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 57.   | ppm   | BD       | 18-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 274.  | ppm   | JT       | 09-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1816. | ppm   | JT       | 19-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 148.  | ppm   | LV       | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.1   | pH    | DC       | 09-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .37   | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 4376. | ppm   | LV       | 17-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 8932. | ppm   | JH       | 10-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 90.   | ppm   | MO       | 09-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .051  | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
| L982291-5 | 04-NOV-98      | EPRI-9811-116 | AS (D)    | .59   | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 374.  | ppm   | JT       | 09-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 539.  | ppm   | LV       | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm   | CaCO3 DC | 09-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 6220. | umhos | BD       | 09-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | CU (D)    | <.025 | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.0   | ppm   | LV       | 23-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm   | BD       | 18-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 408.  | ppm   | CaCO3 DC | 09-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 21.   | ppm   | BD       | 18-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 125.  | ppm   | JT       | 09-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 986.  | ppm   | JT       | 09-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 58.   | ppm   | LV       | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.2   | pH    | DC       | 09-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | 1.5   | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2357. | ppm   | LV       | 17-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 5032. | ppm   | JH       | 10-NOV-98     | 7         | 160.1  |
| L982291-6 | 04-NOV-98      | EPRI-9811-115 | TSS       | 307.  | ppm   | MO       | 09-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .024  | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | AS (D)    | .31   | ppm   | KB       | 18-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 40.   | ppm   | JT       | 09-NOV-98     | 180       | 6010   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982291-6 | 04-NOV-98      | EPRI-9811-115 | CD(D)     | <.005 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 372.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | 16.   | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 3350. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 2.8   | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 178.  | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 22.   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 23.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 646.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 8.9   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 8.5   | pH        | DC      | 09-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | .22   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 981.  | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 2185. | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 89.   | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-7 | 04-NOV-98      | EPRI-9811-114 | AS(D)     | .28   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 21.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | .44   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 19.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 412.  | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CU(D)     | .026  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | F-        | .77   | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 20.   | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 7.3   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 3.1   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 44.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 3.8   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .003  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 6.4   | pH        | DC      | 09-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | .23   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L982291-7 | 04-NOV-98      | EPRI-9811-114 | SO4=      | 104.   | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 282.   | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 146.   | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | 1.5    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-8 | 04-NOV-98      | EPRI-9811-121 | AS(D)     | 1.0    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 246.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 624.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 5600.  | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 2.0    | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10   | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 640.   | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 28.    | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 63.    | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 989.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | .42    | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB(D)     | .003   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.3    | pH        | DC      | 09-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | .018   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 1762.  | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 4055.  | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 4339.  | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-9 | 04-NOV-98      | EPRI-9811-105 | AS(D)     | 39.    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 359.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | .77    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 812.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 11420. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | CU(D)     | <.025  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.4    | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10   | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 351.   | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982291-9  | 04-NOV-98      | EPRI-9811-105 | K         | 85.   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 65.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 2684. | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 73.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.4   | pH        | DC      | 09-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | 5.7   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 4881. | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 9662. | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 147.  | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .072  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-10 | 04-NOV-98      | EPRI-9811-106 | AS (D)    | 2.2   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 248.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 294.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 4230. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 2.0   | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | .18   | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|            |                |               | HCO3      | 354.  | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 46.   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 62.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 640.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 10.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | .003  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.2   | pH        | DC      | 09-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .18   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1542. | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 3253. | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 32.   | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .022  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-11 | 05-NOV-98      | EPRI-9811-107 | AS (D)    | .007  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 121.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 308.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982291-11 | 05-NOV-98      | EPRI-9811-107 | CO3       | <1.0  | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 3090. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | F-        | .93   | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|            |                |               | HCO3      | 232.  | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 11.   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 41.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 510.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 18.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.6   | pH        | DC      | 09-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .14   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 869.  | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 2150. | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 110.  | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .048  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-12 | 05-NOV-98      | EPRI-9811-139 | AS (D)    | .17   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 88.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 244.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 2660. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | F-        | .69   | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|            |                |               | HCO3      | 235.  | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 7.8   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 43.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 419.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 11.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.6   | pH        | DC      | 09-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .61   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 732.  | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 1807. | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982291-12 | 05-NOV-98      | EPRI-9811-139 | TSS       | 38.   | ppm       | MO      | 09-NOV-98     | 160.2     |        |
|            |                |               | ZN(D)     | .054  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-13 | 05-NOV-98      | EPRI-9811-118 | AS(D)     | .079  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 535.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | CD(D)     | .062  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 1956. | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 9840. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|            |                |               | CR(D)     | .013  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CU(D)     | .26   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 1.2   | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|            |                |               | FE(D)     | 2.0   | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|            |                |               | HCO3      | 198.  | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 43.   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 355.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1133. | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 136.  | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 6.8   | pH        | DC      | 09-NOV-98     |           | 150.1  |
|            |                |               | SE(D)     | .25   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1855. | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 7364. | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 22.   | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|            |                |               | ZN(D)     | .97   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-14 | 05-NOV-98      | EPRI-9811-178 | AS(D)     | .11   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 543.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |               | CD(D)     | .061  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 1953. | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 9820. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|            |                |               | CR(D)     | .014  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | CU(D)     | .24   | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 1.2   | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|            |                |               | FE(D)     | 2.0   | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|            |                |               | HCO3      | 204.  | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 42.   | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 354.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO     | DATE COLLECTED | DESCRIPTION    | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|----------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L982291-14 | 05-NOV-98      | EPRI-9811-178. | NA        | 1145.  | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |                | NO2/NO3   | 134.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |                | PB (D)    | <.003  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |                | PH        | 6.9    | pH        | DC      | 09-NOV-98     |           | 150.1  |
|            |                |                | SE (D)    | .25    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |                | SO4=      | 1966.  | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|            |                |                | TDS       | 7079.  | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|            |                |                | TSS       | 21.    | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|            |                |                | ZN (D)    | .96    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
| L982291-15 | 05-NOV-98      | EPRI-9811-176  | AS (D)    | 1.7    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |                | CA        | 563.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |                | CD (D)    | .60    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |                | CL-       | 1308.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |                | CO3       | <1.0   | ppm CaCO3 | DC      | 09-NOV-98     |           | 310.1  |
|            |                |                | COND.     | 11100. | umhos     | BD      | 09-NOV-98     | 28        | 120.1  |
|            |                |                | CR (D)    | <.010  | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |                | CU (D)    | .59    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |                | F-        | 6.4    | ppm       | LV      | 23-NOV-98     | 28        | 340.2  |
|            |                |                | FE (D)    | <.10   | ppm       | BD      | 18-NOV-98     | 180       | 236.1  |
|            |                |                | HCO3      | 597.   | ppm CaCO3 | DC      | 09-NOV-98     | 14        | 310.1  |
|            |                |                | K         | 26.    | ppm       | BD      | 18-NOV-98     | 180       | 258.1  |
|            |                |                | MG        | 253.   | ppm       | JT      | 09-NOV-98     | 180       | 6010   |
|            |                |                | NA        | 1931.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |                | NO2/NO3   | 99.    | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |                | PB (D)    | .13    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |                | PH        | 6.6    | pH        | DC      | 09-NOV-98     |           | 150.1  |
|            |                |                | SE (D)    | .35    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |
|            |                |                | SO4=      | 3593.  | ppm       | LV      | 17-NOV-98     | 28        | 9036   |
|            |                |                | TDS       | 9241.  | ppm       | JH      | 10-NOV-98     | 7         | 160.1  |
|            |                |                | TSS       | 51.    | ppm       | MO      | 09-NOV-98     |           | 160.2  |
|            |                |                | ZN (D)    | 2.9    | ppm       | KB      | 18-NOV-98     | 180       | 6020   |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

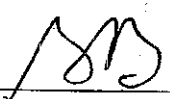
El Paso

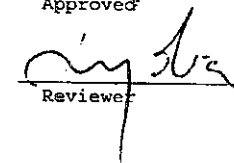
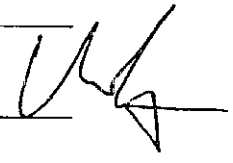
Water and Solid Waste (Project 3220)

Batch No: L982291

| LAB NO | DATE<br>COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE<br>ANALYZED | HOLD<br>DAYS | METHOD |
|--------|-------------------|-------------|-----------|-------|-------|---------|------------------|--------------|--------|
|--------|-------------------|-------------|-----------|-------|-------|---------|------------------|--------------|--------|

PH is a field parameter therefore holding time cannot be met by the laboratory.

Approved 

Reviewer  

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981409

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981409-1 |                | Matrix Spike       | AS (D)    | 99    | % RECOVERY | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CD (D)    | 101   | % RECOVERY | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CL-       | 95    | % RECOVERY | LV      | 20-NOV-98     | 325.2     |        |
|            |                |                    | CR (D)    | 100   | % RECOVERY | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CU (D)    | 93    | % RECOVERY | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | F-        | 102   | % RECOVERY | LV      | 23-NOV-98     | 340.2     |        |
|            |                |                    | FE (D)    | 80    | % RECOVERY | BD      | 18-NOV-98     | 236.1     |        |
|            |                |                    | NO2/NO3   | 78    | % RECOVERY | LV      | 13-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | 101   | % RECOVERY | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | 91    | % RECOVERY | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | 102   | % RECOVERY | LV      | 17-NOV-98     | 9036      |        |
|            |                |                    | ZN (D)    | 104   | % RECOVERY | KB      | 18-NOV-98     | 6020      |        |
| WG981409-2 |                | Prep Blank         | AS (D)    | <.005 | ppm        | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CA        | <1.0  | ppm        | JT      | 09-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | <.005 | ppm        | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CL-       | <1.0  | ppm        | LV      | 20-NOV-98     | 325.2     |        |
|            |                |                    | CO3       | <1.0  | ppm CaCO3  | DC      | 09-NOV-98     | 310.1     |        |
|            |                |                    | COND.     | <5.0  | umhos      | BD      | 09-NOV-98     | 120.1     |        |
|            |                |                    | CR (D)    | <.010 | ppm        | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CU (D)    | <.025 | ppm        | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | F-        | <.050 | ppm        | LV      | 23-NOV-98     | 340.2     |        |
|            |                |                    | FE (D)    | <.10  | ppm        | BD      | 18-NOV-98     | 236.1     |        |
|            |                |                    | HCO3      | <1.0  | ppm CaCO3  | DC      | 09-NOV-98     | 310.1     |        |
|            |                |                    | K         | <5.0  | ppm        | BD      | 18-NOV-98     | 258.1     |        |
|            |                |                    | MG        | <1.0  | ppm        | JT      | 09-NOV-98     | 6010      |        |
|            |                |                    | NA        | <5.0  | ppm        | JT      | 09-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050 | ppm        | LV      | 13-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | <.003 | ppm        | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | <.005 | ppm        | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0  | ppm        | LV      | 17-NOV-98     | 9036      |        |
|            |                |                    | TDS       | <10.  | ppm        | JH      | 10-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0  | ppm        | MO      | 09-NOV-98     | 160.2     |        |
|            |                |                    | ZN (D)    | <.020 | ppm        | KB      | 18-NOV-98     | 6020      |        |
| WG981409-3 |                | Laboratory Control | AS (D)    | 100   | % RECOVERY | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CA        | 106   | % RECOVERY | JT      | 09-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | 98    | % RECOVERY | KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CL-       | 100   | % RECOVERY | LV      | 20-NOV-98     | 325.2     |        |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981409

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS | ANALYST     | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|-------|-------------|---------------|-----------|--------|
| WG981409-3 |                | Laboratory Control | COND.     | 100   | %     | RECOVERY BD | 09-NOV-98     | 120.1     |        |
|            |                |                    | CR (D)    | 100   | %     | RECOVERY KB | 18-NOV-98     | 6020      |        |
|            |                |                    | CU (D)    | 100   | %     | RECOVERY KB | 18-NOV-98     | 6020      |        |
|            |                |                    | F-        | 99    | %     | RECOVERY LV | 23-NOV-98     | 340.2     |        |
|            |                |                    | FE (D)    | 110   | %     | RECOVERY BD | 18-NOV-98     | 236.1     |        |
|            |                |                    | HCO3      | 107   | %     | RECOVERY DC | 09-NOV-98     | 310.1     |        |
|            |                |                    | K         | 110   | %     | RECOVERY BD | 18-NOV-98     | 258.1     |        |
|            |                |                    | MG        | 100   | %     | RECOVERY JT | 09-NOV-98     | 6010      |        |
|            |                |                    | NA        | 102   | %     | RECOVERY JT | 09-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 95    | %     | RECOVERY LV | 13-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | 100   | %     | RECOVERY KB | 18-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | 103   | %     | RECOVERY KB | 18-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | 98    | %     | RECOVERY LV | 17-NOV-98     | 9036      |        |
|            |                |                    | TDS       | 100   | %     | RECOVERY JH | 10-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | 96    | %     | RECOVERY MO | 09-NOV-98     | 160.2     |        |
|            |                |                    | ZN (D)    | 101   | %     | RECOVERY KB | 18-NOV-98     | 6020      |        |
| WG981409-4 |                | Duplicate          | AS (D)    | <1    | %     | RPD KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CA        | 3.2   | %     | RPD JT      | 09-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | <1    | %     | RPD KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CL-       | <1    | %     | RPD LV      | 20-NOV-98     | 325.2     |        |
|            |                |                    | CO3       | <1    | %     | RPD DC      | 09-NOV-98     | 310.1     |        |
|            |                |                    | COND.     | <1    | %     | RPD BD      | 09-NOV-98     | 120.1     |        |
|            |                |                    | CR (D)    | <1    | %     | RPD KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | CU (D)    | <1    | %     | RPD KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | F-        | <1    | %     | RPD LV      | 23-NOV-98     | 340.2     |        |
|            |                |                    | FE (D)    | <1    | %     | RPD BD      | 18-NOV-98     | 236.1     |        |
|            |                |                    | HCO3      | <1    | %     | RPD DC      | 09-NOV-98     | 310.1     |        |
|            |                |                    | K         | 3.4   | %     | RPD BD      | 18-NOV-98     | 258.1     |        |
|            |                |                    | MG        | 3.2   | %     | RPD JT      | 09-NOV-98     | 6010      |        |
|            |                |                    | NA        | 2.3   | %     | RPD JT      | 09-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 6.4   | %     | RPD LV      | 13-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | <1    | %     | RPD KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | <1    | %     | RPD KB      | 18-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | 4.6   | %     | RPD LV      | 17-NOV-98     | 9036      |        |
|            |                |                    | TDS       | 9.3   | %     | RPD JH      | 10-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | 5.6   | %     | RPD MO      | 09-NOV-98     | 160.2     |        |
|            |                |                    | ZN (D)    | <1    | %     | RPD KB      | 18-NOV-98     | 6020      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981409

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| WG981409-5 |                | Practical Quantitation Limit | AS (D)    | .005  | ppm       |         |               |           | 6020   |
|            |                |                              | CA        | 1.0   | ppm       |         |               |           | 6010   |
|            |                |                              | CD (D)    | .005  | ppm       |         |               |           | 6020   |
|            |                |                              | CL-       | 1.0   | ppm       |         |               |           | 325.2  |
|            |                |                              | CO3       | 1.0   | ppm CaCO3 |         |               |           | 310.1  |
|            |                |                              | COND.     | 5.0   | umhos     |         |               |           | 120.1  |
|            |                |                              | CR (D)    | .010  | ppm       |         |               |           | 6020   |
|            |                |                              | CU (D)    | .025  | ppm       |         |               |           | 6020   |
|            |                |                              | F-        | .050  | ppm       |         |               |           | 340.2  |
|            |                |                              | FE (D)    | .10   | ppm       |         |               |           | 236.1  |
|            |                |                              | HCO3      | 1.0   | ppm CaCO3 |         |               |           | 310.1  |
|            |                |                              | K         | 5.0   | ppm       |         |               |           | 258.1  |
|            |                |                              | MG        | 1.0   | ppm       |         |               |           | 6010   |
|            |                |                              | NA        | 5.0   | ppm       |         |               |           | 6010   |
|            |                |                              | NO2/NO3   | .050  | ppm       |         |               |           | 353.2  |
|            |                |                              | PB (D)    | .003  | ppm       |         |               |           | 6020   |
|            |                |                              | SE (D)    | .005  | ppm       |         |               |           | 6020   |
|            |                |                              | SO4=      | 2.0   | ppm       |         |               |           | 9036   |
|            |                |                              | TDS       | 10.   | ppm       |         |               |           | 160.1  |
|            |                |                              | TSS       | 1.0   | ppm       |         |               |           | 160.2  |
|            |                |                              | ZN (D)    | .020  | ppm       |         |               |           | 6020   |

Approved

Reviewer

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

| PROJ. NO.             |      | PROJECT NAME |      |               | NO.<br>OF<br>CON-<br>TAINERS |                |   |                                |            |                                  |  |      |     |  |  |  |  |  |  | REMARKS |  |  |
|-----------------------|------|--------------|------|---------------|------------------------------|----------------|---|--------------------------------|------------|----------------------------------|--|------|-----|--|--|--|--|--|--|---------|--|--|
| SAMPLERS: (Signature) |      |              |      |               |                              | Commons UF/RAW | Nutrients UF/H <sub>2</sub> SO <sub>4</sub> | Diss. Metal F/HNO <sub>3</sub> | CN UF/NaOH | Total Metals UF/HNO <sub>3</sub> | Total Recoverable Metals UF/HNO <sub>3</sub> | BTEX | TPH |  |  |  |  |  |  |         |  |  |
| DATE                  | TIME | COMP.        | GRAB | SAMPLE NUMBER |                              |                |   |                                |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
| 11-3-98               | 1400 |              |      | EPR1-9811-101 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
| 11-3-98               | 1415 |              |      | EPR1-9811-102 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
|                       | 1435 |              |      | EPR1-9811-103 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
|                       | 825  |              |      | EPR1-9811-108 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
| 11-4-98               | 850  |              |      | EPR1-9811-116 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
|                       | 905  |              |      | EPR1-9811-115 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
|                       | 1015 |              |      | EPR1-9811-114 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
| 11-4-98               | 1100 |              |      | EPR1-9811-121 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
|                       | 1510 |              |      | EPR1-9811-105 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
|                       | 1550 |              |      | EPR1-9811-106 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
| 11-5-98               | 830  |              |      | EPR1-9811-107 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
|                       | 905  |              |      | EPR1-9811-139 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
|                       | 950  |              |      | EPR1-9811-118 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
| 11-5-98               | 1000 |              |      | EPR1-9811-178 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |
|                       | 1030 |              |      | EPR1-9811-176 | 3                            | X              | X   | X                              |            |                                  |  |      |     |  |  |  |  |  |  |         |  |  |

Relinquished (Signature)

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Date/Time

11/5/98 1700

Date/Time

Date/Time

Received by: (Signature)

Received by: (Signature)

Received for Laboratory by: (Signature)

*[Signature]*

Lab

TSC-SAITLAKECITY, UT

Remarks

Date/Time

11-6-98 10:00

P.O. #

Enclosed:

☒ Parameter sheet w/detection limits

☐ QA/QC standard mixing instructions

☒ Cover letter

☐ Other

Shipped via: Bus, Fed Ex, UPS

Other

Air Bill #

HFORM-1-

Return results & electronic copy to:

Split Samples:

☒ Accepted ☐ Declined

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982304

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L982304-1 | 05-NOV-98      | EPRI-9811-119 | AS (D)    | 50.    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 448.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .70    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 754.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 10680. | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | .086   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 11.    | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | .24    | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 690.   | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 300.   | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 272.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1811.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 8.1    | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | .007   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 6.7    | pH        | DC      | 12-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .11    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 4911.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 8932.  | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 127.   | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | 12.    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982304-2 | 05-NOV-98      | EPRI-9811-141 | AS (D)    | 2.3    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 151.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .010   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 466.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 5680.  | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | .050   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 2.4    | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10   | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 391.   | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 198.   | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 86.    | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1084.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 3.8    | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | .023   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982304

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L982304-2 | 05-NOV-98      | EPRI-9811-141 | PH        | 7.7    | pH        | DC      | 12-NOV-98     | 150.1     |        |
|           |                |               | SE (D)    | .51    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2157.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 4278.  | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 4.2    | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .15    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982304-3 | 05-NOV-98      | EPRI-9811-140 | AS (D)    | 18.    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 455.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .025   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 302.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 19100. | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | .058   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.8    | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | .13    | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 610.   | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 590.   | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 477.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 4342.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 111.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | .007   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.2    | pH        | DC      | 12-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | 5.4    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 12536. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 18662. | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 11.    | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .44    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982304-4 | 05-NOV-98      | EPRI-9811-179 | AS (D)    | 56.    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 516.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | 1.6    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 444.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 7980.  | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 5.0    | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982304

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982304-4 | 05-NOV-98      | EPRI-9811-179 | FE (D)    | <.10  | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 215.  | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 108.  | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 90.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1333. | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 183.  | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 6.8   | pH        | DC      | 12-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | 2.0   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2915. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 6819. | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 177.  | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | 5.2   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982304-5 | 05-NOV-98      | EPRI-9811-138 | AS (D)    | .039  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 262.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .012  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 466.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 6580. | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 2.6   | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 238.  | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 330.  | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 112.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1126. | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 15.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.4   | pH        | DC      | 12-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | 1.1   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2776. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 5375. | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
| L982304-6 | 05-NOV-98      | EPRI-9811-111 | TSS       | 1.6   | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .19   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | AS (D)    | 2.5   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 115.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982304

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982304-6 | 05-NOV-98      | EPRI-9811-111 | CD (D)    | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 484.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 5790. | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 2.9   | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | .34   | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 339.  | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 52.   | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 64.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 829.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050 | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.5   | pH        | DC      | 12-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 1925. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 3517. | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 176.  | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | <.020 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982304-7 | 09-NOV-98      | EPRI-9811-124 | AS (D)    | 2.9   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 189.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .007  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 441.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 4980. | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 4.7   | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 367.  | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 91.   | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 93.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 914.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 12.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.4   | pH        | DC      | 12-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .33   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982304

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982304-7 | 09-NOV-98      | EPRI-9811-124 | SO4=      | 1762. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 3831. | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 5.0   | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | .22   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982304-8 | 09-NOV-98      | EPRI-9811-129 | AS (D)    | .045  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 376.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .014  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 733.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 9490. | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.9   | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 239.  | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 23.   | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 115.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 2055. | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 66.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.7   | pH        | DC      | 12-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .58   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 3966. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 7863. | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 4.2   | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .32   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982304-9 | 09-NOV-98      | EPRI-9811-127 | AS (D)    | .99   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 191.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .011  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 432.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 4680. | umho's    | BD      | 13-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 2.8   | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|           |                |               | HCO3      | 337.  | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982304

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE      |     | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|-----------|-----|-----------|--------|
|            |                |               |           |       |           |         | ANALYZED  |     |           |        |
| L982304-9  | 09-NOV-98      | EPRI-9811-127 | K         | 52.   | ppm       | BD      | 24-NOV-98 | 180 | 258.1     |        |
|            |                |               | MG        | 79.   | ppm       | JT      | 20-NOV-98 | 180 | 6010      |        |
|            |                |               | NA        | 858.  | ppm       | JT      | 20-NOV-98 | 180 | 6010      |        |
|            |                |               | NO2/NO3   | 6.4   | ppm       | LV      | 13-NOV-98 | 28  | 353.2     |        |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
|            |                |               | PH        | 7.5   | pH        | DC      | 12-NOV-98 |     | 150.1     |        |
|            |                |               | SE(D)     | .36   | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
|            |                |               | SO4=      | 1646. | ppm       | LV      | 18-NOV-98 | 28  | 9036      |        |
|            |                |               | TDS       | 3500. | ppm       | JH      | 12-NOV-98 | 7   | 160.1     |        |
|            |                |               | TSS       | 1.9   | ppm       | MO      | 11-NOV-98 |     | 160.2     |        |
|            |                |               | ZN(D)     | .14   | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
| L982304-10 | 09-NOV-98      | EPRI-9811-128 | AS(D)     | .025  | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
|            |                |               | CA        | 237.  | ppm       | JT      | 20-NOV-98 | 180 | 6010      |        |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
|            |                |               | CL-       | 1038. | ppm       | LV      | 20-NOV-98 | 28  | 325.2     |        |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 12-NOV-98 |     | 310.1     |        |
|            |                |               | COND.     | 8480. | umhos     | BD      | 13-NOV-98 | 28  | 120.1     |        |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 20-NOV-98 | 180 | 6010      |        |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
|            |                |               | F-        | 2.2   | ppm       | LV      | 24-NOV-98 | 28  | 340.2     |        |
|            |                |               | FE(D)     | <.10  | ppm       | BD      | 24-NOV-98 | 180 | 236.1     |        |
|            |                |               | HCO3      | 486.  | ppm CaCO3 | DC      | 12-NOV-98 | 14  | 310.1     |        |
|            |                |               | K         | 35.   | ppm       | BD      | 24-NOV-98 | 180 | 258.1     |        |
|            |                |               | MG        | 146.  | ppm       | JT      | 20-NOV-98 | 180 | 6010      |        |
|            |                |               | NA        | 1695. | ppm       | JT      | 24-NOV-98 | 180 | 6010      |        |
|            |                |               | NO2/NO3   | 6.4   | ppm       | LV      | 13-NOV-98 | 28  | 353.2     |        |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
|            |                |               | PH        | 7.6   | pH        | DC      | 12-NOV-98 |     | 150.1     |        |
|            |                |               | SE(D)     | .24   | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
|            |                |               | SO4=      | 2941. | ppm       | LV      | 18-NOV-98 | 28  | 9036      |        |
|            |                |               | TDS       | 6424. | ppm       | JH      | 12-NOV-98 | 7   | 160.1     |        |
|            |                |               | TSS       | 4.6   | ppm       | MO      | 11-NOV-98 |     | 160.2     |        |
|            |                |               | ZN(D)     | .11   | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
| L982304-11 | 09-NOV-98      | EPRI-9811-125 | AS(D)     | .009  | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
|            |                |               | CA        | 506.  | ppm       | JT      | 20-NOV-98 | 180 | 6010      |        |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 25-NOV-98 | 180 | 6020      |        |
|            |                |               | CL-       | 1149. | ppm       | LV      | 20-NOV-98 | 28  | 325.2     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982304

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982304-11 | 09-NOV-98      | EPRI-9811-125 | CO3       | <1.0  | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 8480. | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 1.6   | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|            |                |               | HCO3      | 236.  | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 17.   | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 191.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1403. | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 40.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.7   | pH        | DC      | 12-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .23   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 3090. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 6907. | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 6.7   | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .15   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982304-12 | 09-NOV-98      | EPRI-9811-131 | AS (D)    | 8.6   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 508.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | .078  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 602.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 7440. | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | .066  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 3.2   | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|            |                |               | HCO3      | 385.  | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 43.   | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 116.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1326. | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 31.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.4   | pH        | DC      | 12-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .24   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 3237. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 6344. | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982304

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982304-12 | 09-NOV-98      | EPRI-9811-131 | TSS       | 4.0   | ppm       | MO      | 11-NOV-98     |           |        |
|            |                |               | ZN(D)     | .63   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982304-13 | 09-NOV-98      | EPRI-9811-133 | AS(D)     | .009  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 207.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CD(D)     | .005  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 530.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 12-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 4480. | umhos     | BD      | 13-NOV-98     | 28        | 120.1  |
|            |                |               | CR(D)     | .012  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | F-        | .71   | ppm       | LV      | 24-NOV-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | BD      | 24-NOV-98     | 180       | 236.1  |
|            |                |               | HCO3      | 203.  | ppm CaCO3 | DC      | 12-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 14.   | ppm       | BD      | 24-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 88.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 630.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 27.   | ppm       | LV      | 13-NOV-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.9   | pH        | DC      | 12-NOV-98     |           | 150.1  |
|            |                |               | SE(D)     | .26   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1454. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 3329. | ppm       | JH      | 12-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 51.   | ppm       | MO      | 11-NOV-98     |           | 160.2  |
|            |                |               | ZN(D)     | .071  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |

PH is a field parameter therefore holding time cannot be met by the laboratory.

*[Signature]*  
Approved

*Ken Bilak*  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981435

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981435-1 |                | Matrix Spike       | AS (D)    | 104   | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CD (D)    | 98    | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CL-       | 99    | % RECOVERY | LV      | 20-NOV-98     | 325.2     |        |
|            |                |                    | CR (D)    | 88    | % RECOVERY | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CU (D)    | 89    | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | F-        | 110   | % RECOVERY | LV      | 24-NOV-98     | 340.2     |        |
|            |                |                    | FE (D)    | 72*   | % RECOVERY | BD      | 24-NOV-98     | 236.1     |        |
|            |                |                    | NO2/NO3   | 79    | % RECOVERY | LV      | 13-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | 95    | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | 103   | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | 97    | % RECOVERY | LV      | 18-NOV-98     | 9036      |        |
|            |                |                    | ZN (D)    | 100   | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
| WG981435-2 |                | Prep Blank         | AS (D)    | <.005 | ppm        | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CA        | <1.0  | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | <.005 | ppm        | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CL-       | <1.0  | ppm        | LV      | 20-NOV-98     | 325.2     |        |
|            |                |                    | CO3       | <1.0  | ppm CaCO3  | DC      | 12-NOV-98     | 310.1     |        |
|            |                |                    | COND.     | <5.0  | umhos      | BD      | 13-NOV-98     | 120.1     |        |
|            |                |                    | CR (D)    | <.010 | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CU (D)    | <.025 | ppm        | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | F-        | <.050 | ppm        | LV      | 24-NOV-98     | 340.2     |        |
|            |                |                    | FE (D)    | <.10  | ppm        | BD      | 24-NOV-98     | 236.1     |        |
|            |                |                    | HCO3      | <1.0  | ppm CaCO3  | DC      | 12-NOV-98     | 310.1     |        |
|            |                |                    | K         | <5.0  | ppm        | BD      | 24-NOV-98     | 258.1     |        |
|            |                |                    | MG        | <1.0  | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | NA        | <5.0  | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050 | ppm        | LV      | 13-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | <.003 | ppm        | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | <.005 | ppm        | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0  | ppm        | LV      | 18-NOV-98     | 9036      |        |
|            |                |                    | TDS       | <10.  | ppm        | JH      | 12-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0  | ppm        | MO      | 11-NOV-98     | 160.2     |        |
|            |                |                    | ZN (D)    | <.020 | ppm        | KB      | 25-NOV-98     | 6020      |        |
| WG981435-3 |                | Laboratory Control | AS (D)    | 95    | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CA        | 102   | % RECOVERY | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | 97    | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CL-       | 98    | % RECOVERY | LV      | 20-NOV-98     | 325.2     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981435

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE   | UNITS | ANALYST     | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|---------|-------|-------------|---------------|-----------|--------|
| WG981435-3 |                | Laboratory Control | COND.     | 101     | %     | RECOVERY BD | 13-NOV-98     | 120.1     |        |
|            |                |                    | CR(D)     | 98      | %     | RECOVERY JT | 20-NOV-98     | 6010      |        |
|            |                |                    | CU(D)     | 98      | %     | RECOVERY KB | 25-NOV-98     | 6020      |        |
|            |                |                    | F-        | 99      | %     | RECOVERY LV | 24-NOV-98     | 340.2     |        |
|            |                |                    | FE(D)     | 105     | %     | RECOVERY BD | 24-NOV-98     | 236.1     |        |
|            |                |                    | HCO3      | 99      | %     | RECOVERY DC | 12-NOV-98     | 310.1     |        |
|            |                |                    | K         | 105     | %     | RECOVERY BD | 24-NOV-98     | 258.1     |        |
|            |                |                    | MG        | 101     | %     | RECOVERY JT | 20-NOV-98     | 6010      |        |
|            |                |                    | NA        | 95      | %     | RECOVERY JT | 20-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 82      | %     | RECOVERY LV | 13-NOV-98     | 353.2     |        |
|            |                |                    | PB(D)     | 100     | %     | RECOVERY KB | 25-NOV-98     | 6020      |        |
|            |                |                    | SE(D)     | 100     | %     | RECOVERY KB | 25-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | 101     | %     | RECOVERY LV | 18-NOV-98     | 9036      |        |
|            |                |                    | TDS       | 104     | %     | RECOVERY JH | 12-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | 97      | %     | RECOVERY MO | 11-NOV-98     | 160.2     |        |
|            |                |                    | ZN(D)     | 100     | %     | RECOVERY KB | 25-NOV-98     | 6020      |        |
| WG981435-4 |                | Duplicate          | AS(D)     | 11      | %     | RPD KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CA        | <1      | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CD(D)     | <1      | %     | RPD KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CL-       | 2.1     | %     | RPD LV      | 20-NOV-98     | 325.2     |        |
|            |                |                    | CO3       | <1      | %     | RPD DC      | 12-NOV-98     | 310.1     |        |
|            |                |                    | COND.     | <1      | %     | RPD BD      | 13-NOV-98     | 120.1     |        |
|            |                |                    | CR(D)     | +/-prdl | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CU(D)     | <1      | %     | RPD KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | F-        | <1      | %     | RPD LV      | 24-NOV-98     | 340.2     |        |
|            |                |                    | FE(D)     | <1      | %     | RPD BD      | 24-NOV-98     | 236.1     |        |
|            |                |                    | HCO3      | 1.0     | %     | RPD DC      | 12-NOV-98     | 310.1     |        |
|            |                |                    | K         | <1      | %     | RPD BD      | 24-NOV-98     | 258.1     |        |
|            |                |                    | MG        | 4.4     | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | NA        | 3.3     | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 2.5     | %     | RPD LV      | 13-NOV-98     | 353.2     |        |
|            |                |                    | PB(D)     | <1      | %     | RPD KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SE(D)     | <1      | %     | RPD KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | 1.4     | %     | RPD LV      | 18-NOV-98     | 9036      |        |
|            |                |                    | TDS       | <1      | %     | RPD JH      | 12-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | <1      | %     | RPD MO      | 11-NOV-98     | 160.2     |        |
|            |                |                    | ZN(D)     | 5.4     | %     | RPD KB      | 25-NOV-98     | 6020      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981435

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| WG981435-5 |                | Practical Quantitation Limit | AS (D)    | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | CA        | 1.0   | ppm       |         |               | 6010      |        |
|            |                |                              | CD (D)    | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | CL-       | 1.0   | ppm       |         |               | 325.2     |        |
|            |                |                              | CO3       | 1.0   | ppm CaCO3 |         |               | 310.1     |        |
|            |                |                              | COND.     | 5.0   | umhos     |         |               | 120.1     |        |
|            |                |                              | CR (D)    | .010  | ppm       |         |               | 6010      |        |
|            |                |                              | CU (D)    | .025  | ppm       |         |               | 6020      |        |
|            |                |                              | F-        | .050  | ppm       |         |               | 340.2     |        |
|            |                |                              | FE (D)    | .10   | ppm       |         |               | 236.1     |        |
|            |                |                              | HCO3      | 1.0   | ppm CaCO3 |         |               | 310.1     |        |
|            |                |                              | K         | 5.0   | ppm       |         |               | 258.1     |        |
|            |                |                              | MG        | 1.0   | ppm       |         |               | 6010      |        |
|            |                |                              | NA        | 5.0   | ppm       |         |               | 6010      |        |
|            |                |                              | NO2/NO3   | .050  | ppm       |         |               | 353.2     |        |
|            |                |                              | PB (D)    | .003  | ppm       |         |               | 6020      |        |
|            |                |                              | SE (D)    | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | SO4=      | 2.0   | ppm       |         |               | 9036      |        |
|            |                |                              | TDS       | 10.   | ppm       |         |               | 160.1     |        |
|            |                |                              | TSS       | 1.0   | ppm       |         |               | 160.2     |        |
|            |                |                              | ZN (D)    | .020  | ppm       |         |               | 6020      |        |

\* = Low spike recovery due to matrix interference.

  
Approved  
Reviewer

## CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

| PROJ. NO.                |      | PROJECT NAME |      | NO. OF CONTAINERS                       |                |   |                                |  |                                  |   |      |     |  |  |  |  |  | REMARKS |  |  |
|--------------------------|------|--------------|------|---|----------------|---|--------------------------------|--|----------------------------------|---|------|-----|--|--|--|--|--|---------|--|--|
| SAMPLERS: (Signature)    |      |              |      |   | Commons UF/RAW | Nutrients UF/H <sub>2</sub> SO <sub>4</sub> | Diss. Metal F/HNO <sub>3</sub> | CN UF/NaOH   | Total Metals UF/HNO <sub>3</sub> | Total Recoverable Metals UF/HNO <sub>3</sub>                      | BTEX | TPH |  |  |  |  |  |         |  |  |
| DATE                     | TIME | COMP.        | GRAB | SAMPLE NUMBER                           |                |   |                                |  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-5-98                  | 1100 |              |      | EPR1-9811-119                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-5-98                  | 1400 |              |      | EPR1-9811-141                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-5-98                  | 1420 |              |      | EPR1-9811-140                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-5-98                  | 1545 |              |      | EPR1-9811-179                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-5-98                  | 1500 |              |      | EPR1-9811-138                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-5-98                  | 1615 |              |      | EPR1-9811-111                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-9-98                  | 900  |              |      | EPR1-9811-124                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-9-98                  | 930  |              |      | EPR1-9811-129                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-9-98                  | 1000 |              |      | EPR1-9811-127                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-9-98                  | 1030 |              |      | EPR1-9811-128                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-9-98                  | 1045 |              |      | EPR1-9811-125                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-9-98                  | 1100 |              |      | EPR1-9811-131                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| 11-9-98                  | 1330 |              |      | EPR1-9811-133                           | 3              | X   | X                              | X  |                                  |   |      |     |  |  |  |  |  |         |  |  |
| Relinquished (Signature) |      | Date/Time    |      | Received by: (Signature)                |                | Lab   |                                | P.O. #   |                                  | Shipped via: Bus, <input checked="" type="checkbox"/> Fed Ex, UPS |      |     |  |  |  |  |  |         |  |  |
| Relinquished (Signature) |      | Date/Time    |      | Received by: (Signature)                |                | Remarks                                     |                                | Air Bill #   |                                  |   |      |     |  |  |  |  |  |         |  |  |
| Relinquished (Signature) |      | Date/Time    |      | Received for Laboratory by: (Signature) |                | Date/Time                                   |                                | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits                             |                                  |   |      |     |  |  |  |  |  |         |  |  |
|                          |      |              |      |   |                |   |                                | <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter |                                  |   |      |     |  |  |  |  |  |         |  |  |
|                          |      |              |      |   |                |   |                                | <input type="checkbox"/> Other   |                                  |   |      |     |  |  |  |  |  |         |  |  |

HFORM-1

**Return results & electronic copy to:**  
Computer Dept. at address at top of page

Split Samples:  
☐ Accepted ☐ Declined

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-1 | 10-NOV-98      | EPRI-9811-132 | AS (D)    | .021  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 465.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 364.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 4370. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | F-        | .75   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | HCO3      | 209.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 15.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 140.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 497.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 16.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.4   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .12   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 1823. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 3806. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 7.0   | ppm       | MO      | 17-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .080  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-2 | 10-NOV-98      | EPRI-9811-154 | AS (D)    | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 170.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 336.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 2860. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | F-        | .76   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | HCO3      | 223.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 20.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 67.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 387.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 8.2   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-2 | 10-NOV-98      | EPRI-9811-154 | PH        | 7.5   | pH        | DC      | 17-NOV-98     | 150.1     |        |
|           |                |               | SE (D)    | .015  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 860.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 2067. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 4.0   | ppm       | MO      | 17-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .046  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-3 | 10-NOV-98      | EPRI-9811-136 | AS (D)    | .13   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 348.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .006  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 478.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 5750. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | F-        | .85   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | HCO3      | 234.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 19.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 159.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 952.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 79.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.3   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .23   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2506. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 4741. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 6.0   | ppm       | MO      | 17-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .081  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-4 | 10-NOV-98      | EPRI-9811-135 | AS (D)    | 1.0   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 314.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .015  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 570.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 6320. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.1   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-4 | 10-NOV-98      | EPRI-9811-135 | FE (D)    | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | HCO3      | 234.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 24.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 157.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1182. | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 52.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.4   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .21   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2674. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 5136. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 2.1   | ppm       | MO      | 17-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .23   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-5 | 10-NOV-98      | EPRI-9811-180 | AS (D)    | 1.0   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 310.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .014  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 587.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 6310. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.1   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | HCO3      | 239.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 24.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 157.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1164. | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 55.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.3   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .20   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2477. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 5108. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
| L982320-6 | 10-NOV-98      | EPRI-9811-137 | TSS       | 1.9   | ppm       | MO      | 17-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .23   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | AS (D)    | .45   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 365.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L982320-6 | 10-NOV-98      | EPRI-9811-137 | CD (D)    | .20    | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 588.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 6090.  | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.4    | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | HCO3      | 235.   | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 23.    | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 165.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1086.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 68.    | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.3    | pH        | DC      | 17-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .42    | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2506.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 5018.  | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 9.0    | ppm       | MO      | 17-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .47    | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-7 | 11-NOV-98      | EPRI-9811-157 | AS (D)    | <.005  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 440.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | .009   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 3268.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 10460. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.2    | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | HCO3      | 138.   | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 34.    | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 196.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1551.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | .24    | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.4    | pH        | DC      | 17-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | <.005  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-7 | 11-NOV-98      | EPRI-9811-157 | SO4=      | 500.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 6473. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | <1.0  | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | .13   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-8 | 11-NOV-98      | EPRI-9811-156 | AS(D)     | .54   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 185.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 457.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 4260. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 1.4   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | HCO3      | 272.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 15.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|           |                |               | MG        | 71.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 773.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 19.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.5   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | .12   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 1375. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 3150. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 7.6   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | .085  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-9 | 11-NOV-98      | EPRI-9811-153 | AS(D)     | .016  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 75.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | .012  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 416.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 4940. | umho's    | BD      | 16-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|           |                |               | F-        | 2.1   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|           |                |               | HCO3      | 411.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-9  | 11-NOV-98      | EPRI-9811-153 | K         | 8.5   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 45.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1184. | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 2.2   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.6   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .055  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1633. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 3660. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 16.   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .17   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-10 | 11-NOV-98      | EPRI-9811-158 | AS (D)    | 2.0   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 195.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | .081  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 586.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 5090. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | .028  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 7.1   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | 1.0   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 166.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 55.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 42.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1056. | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | <.10  | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.6   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1718. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 3771. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 4.7   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .30   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-11 | 11-NOV-98      | EPRI-9811-159 | AS (D)    | .031  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 108.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | .006  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 345.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-11 | 11-NOV-98      | EPRI-9811-159 | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     | 310.1     |        |
|            |                |               | COND.     | 3550. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | .063  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 1.7   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 260.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 13.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 60.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 688.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 5.9   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.8   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .076  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1167. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 2462. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 2.5   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .12   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-12 | 11-NOV-98      | EPRI-9811-160 | AS (D)    | 2.1   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 198.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | .014  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 546.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 5310. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 6.6   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | .29   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 285.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 43.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 36.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1139. | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | <.10  | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | .019  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.6   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .020  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1731. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 3952. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-12 | 11-NOV-98      | EPRI-9811-160 | TSS       | 294.  | ppm       | MO      | 18-NOV-98     | 160.2     |        |
|            |                |               | ZN(D)     | .079  | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
| L982320-13 | 11-NOV-98      | EPRI-9811-142 | AS(D)     | 6.8   | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
|            |                |               | CA        | 249.  | ppm       | JT      | 19-NOV-98 180 | 6010      |        |
|            |                |               | CD(D)     | .020  | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
|            |                |               | CL-       | 641.  | ppm       | LV      | 20-NOV-98 28  | 325.2     |        |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     | 310.1     |        |
|            |                |               | COND.     | 5770. | umhos     | BD      | 16-NOV-98 28  | 120.1     |        |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 19-NOV-98 180 | 6010      |        |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
|            |                |               | F-        | 2.8   | ppm       | LV      | 25-NOV-98 28  | 340.2     |        |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 19-NOV-98 180 | 6010      |        |
|            |                |               | HCO3      | 248.  | ppm CaCO3 | DC      | 17-NOV-98 14  | 310.1     |        |
|            |                |               | K         | 37.   | ppm       | BD      | 30-NOV-98 180 | 258.1     |        |
|            |                |               | MG        | 56.   | ppm       | JT      | 19-NOV-98 180 | 6010      |        |
|            |                |               | NA        | 1192. | ppm       | JT      | 19-NOV-98 180 | 6010      |        |
|            |                |               | NO2/NO3   | .71   | ppm       | LV      | 24-NOV-98 28  | 353.2     |        |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
|            |                |               | PH        | 7.5   | pH        | DC      | 17-NOV-98     | 150.1     |        |
|            |                |               | SE(D)     | .014  | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
|            |                |               | SO4=      | 2168. | ppm       | LV      | 18-NOV-98 28  | 9036      |        |
|            |                |               | TDS       | 4383. | ppm       | JH      | 17-NOV-98 7   | 160.1     |        |
|            |                |               | TSS       | 412.  | ppm       | MO      | 18-NOV-98     | 160.2     |        |
|            |                |               | ZN(D)     | .063  | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
| L982320-14 | 11-NOV-98      | EPRI-9811-145 | AS(D)     | .016  | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
|            |                |               | CA        | 218.  | ppm       | JT      | 19-NOV-98 180 | 6010      |        |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
|            |                |               | CL-       | 377.  | ppm       | LV      | 20-NOV-98 28  | 325.2     |        |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     | 310.1     |        |
|            |                |               | COND.     | 5130. | umhos     | BD      | 16-NOV-98 28  | 120.1     |        |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 19-NOV-98 180 | 6010      |        |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 24-NOV-98 180 | 6020      |        |
|            |                |               | F-        | 1.4   | ppm       | LV      | 25-NOV-98 28  | 340.2     |        |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 19-NOV-98 180 | 6010      |        |
|            |                |               | HCO3      | 430.  | ppm CaCO3 | DC      | 17-NOV-98 14  | 310.1     |        |
|            |                |               | K         | 18.   | ppm       | BD      | 30-NOV-98 180 | 258.1     |        |
|            |                |               | MG        | 91.   | ppm       | JT      | 19-NOV-98 180 | 6010      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-14 | 11-NOV-98      | EPRI-9811-145 | NA        | 1045. | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 5.1   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.5   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .022  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 2048. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 4016. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 77.   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .080  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-15 | 11-NOV-98      | EPRI-9811-146 | AS (D)    | .089  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 174.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | .006  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 70.   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 2430. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 1.2   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 451.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 11.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 85.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 294.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 12.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.3   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .24   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 952.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 1862. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 43.   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .11   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-16 | 11-NOV-98      | EPRI-9811-150 | AS (D)    | 3.1   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 93.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 170.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 2850. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-16 | 11-NOV-98      | EPRI-9811-150 | CR(D)     | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 3.5   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 311.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 28.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 45.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 502.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 7.6   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.7   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE(D)     | .24   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1021. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 2011. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 13.   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|            |                |               | ZN(D)     | .033  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-17 | 11-NOV-98      | EPRI-9811-144 | AS(D)     | .009  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 53.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 421.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 4710. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 4.4   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 385.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 9.5   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 62.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1077. | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 9.3   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.8   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE(D)     | .15   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1517. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 3451. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 47.   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|            |                |               | ZN(D)     | .050  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-18 | 11-NOV-98      | EPRI-9811-147 | AS (D)    | .010  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 152.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 568.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 4880. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 2.8   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 338.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 25.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 78.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 987.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 9.5   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.4   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .22   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1629. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 3614. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 14.   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .042  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-19 | 11-NOV-98      | EPRI-9811-143 | AS (D)    | 6.4   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 29.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 102.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 2220. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 5.1   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 300.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 37.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 16.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 406.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 8.1   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-19 | 11-NOV-98      | EPRI-9811-143 | PH        | 8.1   | ph        | DC      | 17-NOV-98     | 150.1     |        |
|            |                |               | SE(D)     | .74   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 616.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 1422. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 46.   | ppm       | MO      | 18-NOV-98     |           | 160.2  |
|            |                |               | ZN(D)     | .033  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               |           |       |           |         |               |           |        |
| L982320-20 | 12-NOV-98      | EPRI-9811-151 | AS(D)     | .006  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 43.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 271.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 2640. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 2.7   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 339.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 10.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 33.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 522.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 6.8   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.9   | ph        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE(D)     | .033  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 647.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 1762. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 183.  | ppm       | MO      | 19-NOV-98     |           | 160.2  |
|            |                |               | ZN(D)     | .038  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               |           |       |           |         |               |           |        |
|            |                |               | AS(D)     | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 43.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 271.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 2640. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 2.8   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | FOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-21 | 12-NOV-98      | EPRI-9811-181 | FE(D)     | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 300.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 11.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 32.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 531.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 6.6   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.9   | pH        | DC      | 17-NOV-98     | 180       | 150.1  |
|            |                |               | SE(D)     | .027  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 640.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 1751. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 146.  | ppm       | MO      | 19-NOV-98     | 180       | 160.2  |
|            |                |               | ZN(D)     | .039  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-22 | 12-NOV-98      | EPRI-9811-174 | AS(D)     | .057  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | AS(TR)    | .055  | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |
|            |                |               | CA        | 24.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CD(TR)    | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |
|            |                |               | CL-       | 7.6   | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | 16.   | ppm CaCO3 | DC      | 17-NOV-98     | 180       | 310.1  |
|            |                |               | COND.     | 272.  | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CR(TR)    | <.010 | ppm       | JT      | 16-DEC-98     | 180       | 6010   |
|            |                |               | CU(D)     | .040  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CU(TR)    | .15   | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |
|            |                |               | F-        | .32   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE(D)     | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | FE(TR)    | 3.1   | ppm       | JT      | 16-DEC-98     | 180       | 6010   |
|            |                |               | HCO3      | 63.   | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | <5.0  | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 4.0   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 22.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | <.10  | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB(D)     | .004  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PB(TR)    | .054  | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |
|            |                |               | PH        | 8.9   | pH        | DC      | 17-NOV-98     | 180       | 150.1  |
|            |                |               | SE(D)     | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SE(TR)    | <.005 | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-22 | 12-NOV-98      | EPRI-9811-174 | SO4=      | 65.   | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 182.  | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 50.   | ppm       | MO      | 19-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | <.020 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | ZN (TR)   | .18   | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |
| L982320-23 | 12-NOV-98      | EPRI-9811-149 | AS (D)    | .031  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 223.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | .009  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 346.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 2980. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | .68   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 251.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 8.5   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 101.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 329.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 9.7   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | .016  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.6   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .021  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 961.  | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 2204. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 10.   | ppm       | MO      | 19-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .096  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | AS (D)    | .008  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 75.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | .009  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 353.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 3680. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | F-        | 2.7   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
| L982320-24 | 12-NOV-98      | EPRI-9811-148 | AS (D)    | .008  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 75.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | .009  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 353.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982320-24 | 12-NOV-98      | EPRI-9811-148 | HCO3      | 292.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 12.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 63.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 756.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 7.9   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.7   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .038  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 1200. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 2641. | ppm       | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 17.   | ppm       | MO      | 19-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .14   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
| L982320-25 | 12-NOV-98      | EPRI-9811-173 | AS (D)    | 1.5   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | AS (TR)   | 1.6   | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |
|            |                |               | CA        | 198.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | .27   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CD (TR)   | .37   | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |
|            |                |               | CL-       | 559.  | ppm       | LV      | 20-NOV-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 17-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 4540. | umhos     | BD      | 16-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | CR (TR)   | <.010 | ppm       | JT      | 16-DEC-98     |           | 6010   |
|            |                |               | CU (D)    | .54   | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | CU (TR)   | 2.2   | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |
|            |                |               | F-        | 3.6   | ppm       | LV      | 25-NOV-98     | 28        | 340.2  |
|            |                |               | FE (D)    | .10   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | FE (TR)   | 1.3   | ppm       | JT      | 16-DEC-98     | 180       | 6010   |
|            |                |               | HCO3      | 136.  | ppm CaCO3 | DC      | 17-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 33.   | ppm       | BD      | 30-NOV-98     | 180       | 258.1  |
|            |                |               | MG        | 35.   | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 887.  | ppm       | JT      | 19-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 1.4   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | .093  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | PB (TR)   | .54   | ppm       | KB      | 24-NOV-98     | 180       | 6020M  |
|            |                |               | PH        | 8.2   | pH        | DC      | 17-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .079  | ppm       | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | SE (TR)   | .080  | ppm       | KB      | 24-NOV-98     |           | 6020M  |
|            |                |               | SO4=      | 1592. | ppm       | LV      | 18-NOV-98     | 28        | 9036   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT


El Paso

Water and Solid Waste (Project 3220)

Batch No: L982320

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-------|---------|---------------|-----------|--------|
| L982320-25 | 12-NOV-98      | EPRI-9811-173 | TDS       | 3397. | ppm   | JH      | 17-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 44.   | ppm   | MO      | 19-NOV-98     |           | 160.2  |
|            |                |               | ZN(D)     | .98   | ppm   | KB      | 24-NOV-98     | 180       | 6020   |
|            |                |               | ZN(TR)    | 1.9   | ppm   | KB      | 24-NOV-98     | 180       | 6020M  |

PH is a field parameter therefore holding time cannot be met by the laboratory.  
Digestion Method -- 3010 and 6020M.  
Dissolved were run direct.

  
Approved  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981440

| LAB NO     | DATE COLLECTED | DESCRIPTION  | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981440-1 |                | Matrix Spike | AS        | 102   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | AS(D)     | 105   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | AS(TR)    | 102   | % RECOVERY | KB      | 24-NOV-98     | 6020M     |        |
|            |                |              | CD        | 101   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | CD(D)     | 100   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | CD(TR)    | 101   | % RECOVERY | KB      | 24-NOV-98     | 6020M     |        |
|            |                |              | CL-       | 100   | % RECOVERY | LV      | 20-NOV-98     | 325.2     |        |
|            |                |              | CR        | 100   | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |              | CR(D)     | 97    | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |              | CR(TR)    | 95    | % RECOVERY | JT      | 16-DEC-98     | 6010      |        |
|            |                |              | CU        | 104   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | CU(D)     | 91    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | CU(TR)    | 104   | % RECOVERY | KB      | 24-NOV-98     | 6020M     |        |
|            |                |              | F-        | 100   | % RECOVERY | LV      | 25-NOV-98     | 340.2     |        |
|            |                |              | FE        | 102   | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |              | FE(D)     | 100   | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |              | FE(TR)    | 97    | % RECOVERY | JT      | 16-DEC-98     | 6010      |        |
|            |                |              | NO2/NO3   | 114   | % RECOVERY | LV      | 24-NOV-98     | 353.2     |        |
|            |                |              | PB        | 99    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | PB(D)     | 98    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | PB(TR)    | 99    | % RECOVERY | KB      | 24-NOV-98     | 6020M     |        |
|            |                |              | SE        | 100   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | SE(D)     | 113   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | SE(TR)    | 100   | % RECOVERY | KB      | 24-NOV-98     | 6020M     |        |
|            |                |              | SO4=      | 104   | % RECOVERY | LV      | 18-NOV-98     | 9036      |        |
|            |                |              | ZN        | 103   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | ZN(D)     | 100   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | ZN(TR)    | 103   | % RECOVERY | KB      | 24-NOV-98     | 6020M     |        |
| WG981440-2 |                | Prep Blank   | AS        | <.005 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | AS(D)     | <.005 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | AS(TR)    | <.005 | ppm        | KB      | 24-NOV-98     | 6020M     |        |
|            |                |              | CA        | <1.0  | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |              | CD        | <.005 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | CD(D)     | <.005 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |              | CD(TR)    | <.005 | ppm        | KB      | 24-NOV-98     | 6020M     |        |
|            |                |              | CL-       | <1.0  | ppm        | LV      | 20-NOV-98     | 325.2     |        |
|            |                |              | CO3       | <1.0  | ppm CaCO3  | DC      | 17-NOV-98     | 310.1     |        |
|            |                |              | COND.     | <5.0  | umhos      | BD      | 16-NOV-98     | 120.1     |        |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981440

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981440-2 |                | Prep Blank         | CR        | <.010 | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CR (D)    | <.010 | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CR (TR)   | <.010 | ppm        | JT      | 16-DEC-98     | 6010      |        |
|            |                |                    | CU        | <.025 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | CU (D)    | <.025 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | CU (TR)   | <.025 | ppm        | KB      | 24-NOV-98     | 6020M     |        |
|            |                |                    | F-        | <.050 | ppm        | LV      | 25-NOV-98     | 340.2     |        |
|            |                |                    | FE        | <.10  | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | FE (D)    | <.10  | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | FE (TR)   | <.10  | ppm        | JT      | 16-DEC-98     | 6010      |        |
|            |                |                    | HCO3      | <1.0  | ppm CaCO3  | DC      | 17-NOV-98     | 310.1     |        |
|            |                |                    | K         | <5.0  | ppm        | BD      | 30-NOV-98     | 258.1     |        |
|            |                |                    | MG        | <1.0  | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | NA        | <5.0  | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050 | ppm        | LV      | 24-NOV-98     | 353.2     |        |
|            |                |                    | PB        | <.003 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | PB (D)    | <.003 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | PB (TR)   | <.003 | ppm        | KB      | 24-NOV-98     | 6020M     |        |
|            |                |                    | SE        | <.005 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | <.005 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | SE (TR)   | <.005 | ppm        | KB      | 24-NOV-98     | 6020M     |        |
|            |                |                    | SO4=      | <2.0  | ppm        | LV      | 18-NOV-98     | 9036      |        |
|            |                |                    | TDS       | <10.  | ppm        | JH      | 17-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0  | ppm        | MO      | 18-NOV-98     | 160.2     |        |
|            |                |                    | ZN        | <.020 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | ZN (D)    | <.020 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | ZN (TR)   | <.020 | ppm        | KB      | 24-NOV-98     | 6020M     |        |
| WG981440-3 |                | Laboratory Control | AS        | 95    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | AS (D)    | 95    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | AS (TR)   | 95    | % RECOVERY | KB      | 24-NOV-98     | 6020M     |        |
|            |                |                    | CA        | 104   | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CD        | 95    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | CD (D)    | 98    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | CD (TR)   | 95    | % RECOVERY | KB      | 24-NOV-98     | 6020M     |        |
|            |                |                    | CL-       | 102   | % RECOVERY | LV      | 20-NOV-98     | 325.2     |        |
|            |                |                    | COND.     | 100   | % RECOVERY | BD      | 16-NOV-98     | 120.1     |        |
|            |                |                    | CR        | 95    | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CR (D)    | 100   | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981440

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE   | UNITS | ANALYST     | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|---------|-------|-------------|---------------|-----------|--------|
| WG981440-3 |                | Laboratory Control | CR (TR)   | 105     | %     | RECOVERY JT | 16-DEC-98     | 6010      |        |
|            |                |                    | CU        | 95      | %     | RECOVERY KB | 24-NOV-98     | 6020      |        |
|            |                |                    | CU (D)    | 98      | %     | RECOVERY KB | 24-NOV-98     | 6020      |        |
|            |                |                    | CU (TR)   | 95      | %     | RECOVERY KB | 24-NOV-98     | 6020M     |        |
|            |                |                    | P-        | 98      | %     | RECOVERY LV | 25-NOV-98     | 340.2     |        |
|            |                |                    | FE        | 96      | %     | RECOVERY JT | 19-NOV-98     | 6010      |        |
|            |                |                    | FE (D)    | 96      | %     | RECOVERY JT | 19-NOV-98     | 6010      |        |
|            |                |                    | FE (TR)   | 108     | %     | RECOVERY JT | 16-DEC-98     | 6010      |        |
|            |                |                    | HCO3      | 95      | %     | RECOVERY DC | 17-NOV-98     | 310.1     |        |
|            |                |                    | K         | 100     | %     | RECOVERY BD | 30-NOV-98     | 258.1     |        |
|            |                |                    | MG        | 101     | %     | RECOVERY JT | 19-NOV-98     | 6010      |        |
|            |                |                    | NA        | 103     | %     | RECOVERY JT | 19-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 113     | %     | RECOVERY LV | 24-NOV-98     | 353.2     |        |
|            |                |                    | PB        | 95      | %     | RECOVERY KB | 24-NOV-98     | 6020      |        |
|            |                |                    | PB (D)    | 98      | %     | RECOVERY KB | 24-NOV-98     | 6020      |        |
|            |                |                    | PB (TR)   | 95      | %     | RECOVERY KB | 24-NOV-98     | 6020M     |        |
|            |                |                    | SE        | 95      | %     | RECOVERY KB | 24-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | 98      | %     | RECOVERY KB | 24-NOV-98     | 6020      |        |
|            |                |                    | SE (TR)   | 95      | %     | RECOVERY KB | 24-NOV-98     | 6020M     |        |
|            |                |                    | SO4=      | 101     | %     | RECOVERY LV | 18-NOV-98     | 9036      |        |
|            |                |                    | TDS       | 98      | %     | RECOVERY JH | 17-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | 98      | %     | RECOVERY MO | 18-NOV-98     | 160.2     |        |
|            |                |                    | ZN        | 105     | %     | RECOVERY KB | 24-NOV-98     | 6020      |        |
|            |                |                    | ZN (D)    | 95      | %     | RECOVERY KB | 24-NOV-98     | 6020      |        |
|            |                |                    | ZN (TR)   | 105     | %     | RECOVERY KB | 24-NOV-98     | 6020M     |        |
| WG981440-4 |                | Duplicate          | AS        | 7.5     | %     | RPD KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | AS (D)    | +/-prdl | %     | RPD KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | AS (TR)   | 7.5     | %     | RPD KB      | 24-NOV-98     | 6020M     |        |
|            |                |                    | CA        | 1.7     | %     | RPD JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CD        | <1      | %     | RPD KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | CD (D)    | <1      | %     | RPD KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | CD (TR)   | <1      | %     | RPD KB      | 24-NOV-98     | 6020M     |        |
|            |                |                    | CL-       | 1.1     | %     | RPD LV      | 20-NOV-98     | 325.2     |        |
|            |                |                    | CO3       | <1      | %     | RPD DC      | 17-NOV-98     | 310.1     |        |
|            |                |                    | COND.     | <1      | %     | RPD BD      | 16-NOV-98     | 120.1     |        |
|            |                |                    | CR        | <1      | %     | RPD JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CR (D)    | <1      | %     | RPD JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CR (TR)   | <1      | %     | RPD JT      | 16-DEC-98     | 6010      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981440

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE   | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|---------|-----------|---------|---------------|-----------|--------|
| WG981440-4 |                | Duplicate                    | CU        | 6.9     | % RPD     | KB      | 24-NOV-98     | 6020      |        |
|            |                |                              | CU(D)     | <1      | % RPD     | KB      | 24-NOV-98     | 6020      |        |
|            |                |                              | CU(TR)    | 6.9     | % RPD     | KB      | 24-NOV-98     | 6020M     |        |
|            |                |                              | F-        | <1      | % RPD     | LV      | 25-NOV-98     | 340.2     |        |
|            |                |                              | FE        | <1      | % RPD     | JT      | 19-NOV-98     | 6010      |        |
|            |                |                              | FE(D)     | +/-prdl | % RPD     | JT      | 19-NOV-98     | 6010      |        |
|            |                |                              | FE(TR)    | 6.5     | % RPD     | JT      | 16-DEC-98     | 6010      |        |
|            |                |                              | HCO3      | 1.0     | % RPD     | DC      | 17-NOV-98     | 310.1     |        |
|            |                |                              | K         | <1      | % RPD     | BD      | 30-NOV-98     | 258.1     |        |
|            |                |                              | MG        | <1      | % RPD     | JT      | 19-NOV-98     | 6010      |        |
|            |                |                              | NA        | <1      | % RPD     | JT      | 19-NOV-98     | 6010      |        |
|            |                |                              | NO2/NO3   | 2.5     | % RPD     | LV      | 24-NOV-98     | 353.2     |        |
|            |                |                              | PB        | <1      | % RPD     | KB      | 24-NOV-98     | 6020      |        |
|            |                |                              | PB(D)     | <1      | % RPD     | KB      | 24-NOV-98     | 6020      |        |
|            |                |                              | PB(TR)    | <1      | % RPD     | KB      | 24-NOV-98     | 6020M     |        |
|            |                |                              | SE        | <1      | % RPD     | KB      | 24-NOV-98     | 6020      |        |
|            |                |                              | SE(D)     | <1      | % RPD     | KB      | 24-NOV-98     | 6020      |        |
|            |                |                              | SE(TR)    | <1      | % RPD     | KB      | 24-NOV-98     | 6020      |        |
|            |                |                              | SO4=      | <1      | % RPD     | LV      | 24-NOV-98     | 6020M     |        |
|            |                |                              | TDS       | <1      | % RPD     | JH      | 18-NOV-98     | 9036      |        |
|            |                |                              | TSS       | 2.2     | % RPD     | MO      | 17-NOV-98     | 160.1     |        |
|            |                |                              | ZN        | <1      | % RPD     | KB      | 18-NOV-98     | 160.2     |        |
|            |                |                              | ZN(D)     | <1      | % RPD     | KB      | 24-NOV-98     | 6020      |        |
|            |                |                              | ZN(TR)    | <1      | % RPD     | KB      | 24-NOV-98     | 6020      |        |
| WG981440-5 |                | Practical Quantitation Limit | AS        | .005    | ppm       |         |               | 6020      |        |
|            |                |                              | AS(D)     | .005    | ppm       |         |               | 6020      |        |
|            |                |                              | AS(TR)    | .005    | ppm       |         |               | 6020M     |        |
|            |                |                              | CA        | 1.0     | ppm       |         |               | 6010      |        |
|            |                |                              | CD        | .005    | ppm       |         |               | 6020      |        |
|            |                |                              | CD(D)     | .005    | ppm       |         |               | 6020      |        |
|            |                |                              | CD(TR)    | .005    | ppm       |         |               | 6020M     |        |
|            |                |                              | CL-       | 1.0     | ppm       |         |               | 325.2     |        |
|            |                |                              | CO3       | 1.0     | ppm CaCO3 |         |               | 310.1     |        |
|            |                |                              | COND.     | 5.0     | umhos     |         |               | 120.1     |        |
|            |                |                              | CR        | .010    | ppm       |         |               | 6010      |        |
|            |                |                              | CR(D)     | .010    | ppm       |         |               | 6010      |        |
|            |                |                              | CR(TR)    | .010    | ppm       |         |               | 6010      |        |
|            |                |                              | CU        | .025    | ppm       |         |               | 6020      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981440

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|------------|---------|---------------|-----------|--------|
|            |                |                              |           |       |            |         |               |           |        |
| WG981440-5 |                | Practical Quantitation Limit | CU (D)    | .025  | ppm        |         |               |           | 6020   |
|            |                |                              | CU (TR)   | .025  | ppm        |         |               |           | 6020M  |
|            |                |                              | F-        | .050  | ppm        |         |               |           | 340.2  |
|            |                |                              | FE        | .10   | ppm        |         |               |           | 6010   |
|            |                |                              | FE (D)    | .10   | ppm        |         |               |           | 6010   |
|            |                |                              | FE (TR)   | .10   | ppm        |         |               |           | 6010   |
|            |                |                              | HCO3      | 1.0   | ppm CaCO3  |         |               |           | 310.1  |
|            |                |                              | K         | 5.0   | ppm        |         |               |           | 258.1  |
|            |                |                              | MG        | 1.0   | ppm        |         |               |           | 6010   |
|            |                |                              | NA        | 5.0   | ppm        |         |               |           | 6010   |
|            |                |                              | NO2/NO3   | .050  | ppm        |         |               |           | 353.2  |
|            |                |                              | PB        | .003  | ppm        |         |               |           | 6020   |
|            |                |                              | PB (D)    | .003  | ppm        |         |               |           | 6020   |
|            |                |                              | PB (TR)   | .003  | ppm        |         |               |           | 6020M  |
|            |                |                              | SE        | .005  | ppm        |         |               |           | 6020   |
|            |                |                              | SE (D)    | .005  | ppm        |         |               |           | 6020   |
|            |                |                              | SE (TR)   | .005  | ppm        |         |               |           | 6020M  |
|            |                |                              | SO4=      | 2.0   | ppm        |         |               |           | 9036   |
|            |                |                              | TDS       | 10.   | ppm        |         |               |           | 160.1  |
|            |                |                              | TSS       | 1.0   | ppm        |         |               |           | 160.2  |
|            |                |                              | ZN        | .020  | ppm        |         |               |           | 6020   |
|            |                |                              | ZN (D)    | .020  | ppm        |         |               |           | 6020   |
|            |                |                              | ZN (TR)   | .020  | ppm        |         |               |           | 6020M  |
| WG981440-6 |                | Matrix Spike                 | AS (D)    | 106   | % RECOVERY | KB      | 24-NOV-98     |           | 6020   |
|            |                |                              | CD (D)    | 100   | % RECOVERY | KB      | 24-NOV-98     |           | 6020   |
|            |                |                              | CR (D)    | 97    | % RECOVERY | JT      | 19-NOV-98     |           | 6010   |
|            |                |                              | CU (D)    | 93    | % RECOVERY | KB      | 24-NOV-98     |           | 6020   |
|            |                |                              | F-        | 98    | % RECOVERY | LV      | 25-NOV-98     |           | 340.2  |
|            |                |                              | FE (D)    | 99    | % RECOVERY | JT      | 19-NOV-98     |           | 6010   |
|            |                |                              | NO2/NO3   | 115   | % RECOVERY | LV      | 24-NOV-98     |           | 353.2  |
|            |                |                              | SE (D)    | 117   | % RECOVERY | KB      | 24-NOV-98     |           | 6020   |
|            |                |                              | SO4=      | 112   | % RECOVERY | LV      | 18-NOV-98     |           | 9036   |
|            |                |                              | ZN (D)    | 102   | % RECOVERY | KB      | 24-NOV-98     |           | 6020   |
|            |                |                              |           |       |            |         |               |           |        |
| WG981440-7 |                | Prep Blank                   | AS (D)    | <.005 | ppm        | KB      | 24-NOV-98     |           | 6020   |
|            |                |                              | CA        | <1.0  | ppm        | JT      | 19-NOV-98     |           | 6010   |
|            |                |                              | CD (D)    | <.005 | ppm        | KB      | 24-NOV-98     |           | 6020   |
|            |                |                              | CO3       | <1.0  | ppm CaCO3  | DC      | 17-NOV-98     |           | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981440

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981440-7 |                | Prep Blank         | COND.     | <5.0  | umhos      | BD      | 16-NOV-98     | 120.1     |        |
|            |                |                    | CR (D)    | <.010 | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CU (D)    | <.025 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | F-        | <.050 | ppm        | LV      | 25-NOV-98     | 340.2     |        |
|            |                |                    | FE (D)    | <.10  | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | HCO3      | <1.0  | ppm CaCO3  | DC      | 17-NOV-98     | 310.1     |        |
|            |                |                    | K         | <5.0  | ppm        | BD      | 30-NOV-98     | 258.1     |        |
|            |                |                    | MG        | <1.0  | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | NA        | <5.0  | ppm        | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050 | ppm        | LV      | 24-NOV-98     | 353.2     |        |
|            |                |                    | SE (D)    | <.005 | ppm        | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0  | ppm        | LV      | 18-NOV-98     | 9036      |        |
|            |                |                    | TDS       | <10.  | ppm        | JH      | 17-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0  | ppm        | MO      | 19-NOV-98     | 160.2     |        |
|            |                |                    | ZN (D)    | <.020 | ppm        | KB      | 24-NOV-98     | 6020      |        |
| WG981440-8 |                | Laboratory Control | AS (D)    | 95    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | CA        | 104   | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | 98    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | COND.     | 100   | % RECOVERY | BD      | 16-NOV-98     | 120.1     |        |
|            |                |                    | CR (D)    | 97    | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CU (D)    | 98    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | F-        | 99    | % RECOVERY | LV      | 25-NOV-98     | 340.2     |        |
|            |                |                    | FE (D)    | 95    | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | HCO3      | 97    | % RECOVERY | DC      | 17-NOV-98     | 310.1     |        |
|            |                |                    | K         | 95    | % RECOVERY | BD      | 30-NOV-98     | 258.1     |        |
|            |                |                    | MG        | 101   | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | NA        | 101   | % RECOVERY | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 117   | % RECOVERY | LV      | 24-NOV-98     | 353.2     |        |
|            |                |                    | SE (D)    | 98    | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | 104   | % RECOVERY | LV      | 18-NOV-98     | 9036      |        |
|            |                |                    | TDS       | 99    | % RECOVERY | JH      | 17-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | 104   | % RECOVERY | MO      | 19-NOV-98     | 160.2     |        |
|            |                |                    | ZN (D)    | 100   | % RECOVERY | KB      | 24-NOV-98     | 6020      |        |
| WG981440-9 |                | Duplicate          | AS (D)    | <1    | % RPD      | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | CA        | <1    | % RPD      | JT      | 19-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | <1    | % RPD      | KB      | 24-NOV-98     | 6020      |        |
|            |                |                    | CO3       | <1    | % RPD      | DC      | 17-NOV-98     | 310.1     |        |

## ASARCO TECHNICAL SERVICES CENTER


## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981440

| LAB NO     | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|-------------|-----------|-------|-------|---------|---------------|-----------|--------|
| WG981440-9 |                | Duplicate   | COND.     | <1    | % RPD | BD      | 16-NOV-98     | 120.1     |        |
|            |                |             | CR (D)    | <1    | % RPD | JT      | 19-NOV-98     | 6010      |        |
|            |                |             | CU (D)    | <1    | % RPD | KB      | 24-NOV-98     | 6020      |        |
|            |                |             | F-        | 5.5   | % RPD | LV      | 25-NOV-98     | 340.2     |        |
|            |                |             | FE (D)    | <1    | % RPD | JT      | 19-NOV-98     | 6010      |        |
|            |                |             | HCO3      | 1.0   | % RPD | DC      | 17-NOV-98     | 310.1     |        |
|            |                |             | K         | <1    | % RPD | BD      | 30-NOV-98     | 258.1     |        |
|            |                |             | MG        | <1    | % RPD | JT      | 19-NOV-98     | 6010      |        |
|            |                |             | NA        | <1    | % RPD | JT      | 19-NOV-98     | 6010      |        |
|            |                |             | NO2/NO3   | 3.0   | % RPD | LV      | 24-NOV-98     | 353.2     |        |
|            |                |             | SE (D)    | 3.1   | % RPD | KB      | 24-NOV-98     | 6020      |        |
|            |                |             | SO4=      | 2.8   | % RPD | LV      | 18-NOV-98     | 9036      |        |
|            |                |             | TDS       | <1    | % RPD | JH      | 17-NOV-98     | 160.1     |        |
|            |                |             | TSS       | 2.3   | % RPD | MO      | 19-NOV-98     | 160.2     |        |
|            |                |             | ZN (D)    | <1    | % RPD | KB      | 24-NOV-98     | 6020      |        |

  
Approved  
Reviewer

## CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
 P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

| PROJ. NO.                |      | PROJECT NAME       |      | NO. OF CONTAINERS                       | ANALYSIS       |   |                                |  |                                  |  |      |       |  |            |  |  |  |  | REMARKS |  |  |
|--------------------------|------|--------------------|------|---|----------------|---|--------------------------------|--|----------------------------------|--|------|-------|--|------------|--|--|--|--|---------|--|--|
| 0931                     |      | ASARCO-EL PASO, TX |      |   | Commons UF/RAW | Nutrients UF/H <sub>2</sub> SO <sub>4</sub> | Diss. Metal F/HNO <sub>3</sub> | CN UF/NaOH   | Total Metals UF/HNO <sub>3</sub> | Total Recoverable Metals UF/HNO <sub>3</sub>   | BTEX | TPH   |  |            |  |  |  |  |         |  |  |
| DATE                     | TIME | COMP.              | GRAB | SAMPLE NUMBER                           |                |   |                                |  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
| 11-10-98                 | 1000 |                    |      | EPRI-9811-132                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1045 |                    |      | EPRI-9811-154                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1230 |                    |      | EPRI-9811-136                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1400 |                    |      | EPRI-9811-135                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1405 |                    |      | EPRI-9811-180                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1430 |                    |      | EPRI-9811-137                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
| 11-11-98                 | 815  |                    |      | EPRI-9811-157                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 840  |                    |      | EPRI-9811-156                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 915  |                    |      | EPRI-9811-153                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 940  |                    |      | EPRI-9811-158                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1000 |                    |      | EPRI-9811-159                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1030 |                    |      | EPRI-9811-160                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1050 |                    |      | EPRI-9811-142                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1330 |                    |      | EPRI-9811-145                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          | 1400 |                    |      | EPRI-9811-146                           | 3              | X   | X                              | X  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
| Relinquished (Signature) |      | Date/Time          |      | Received by: (Signature)                |                | Lab   |                                | P.O. #   |                                  | Shipped via: Bus, <input checked="" type="checkbox"/> Fed Ex, <input type="checkbox"/> UPS |      | Other |  | Air Bill # |  |  |  |  |         |  |  |
| Douglas M. Solon         |      | 11-12-98<br>1400   |      |   |                | TDC-SAILLAKE CT, UT                         |                                |  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
| Relinquished (Signature) |      | Date/Time          |      | Received by: (Signature)                |                | Remarks                                     |                                |  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
|                          |      |                    |      |   |                |   |                                |  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |
| Relinquished (Signature) |      | Date/Time          |      | Received for Laboratory by: (Signature) |                | Date/Time                                   |                                | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits<br><input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter<br><input type="checkbox"/> Other |                                  | Split Samples:<br><input type="checkbox"/> Accepted <input type="checkbox"/> Declined      |      |       |  |            |  |  |  |  |         |  |  |
|                          |      |                    |      | [Signature]                             |                | 11-13-98/10:30                              |                                |  |                                  |  |      |       |  |            |  |  |  |  |         |  |  |

HFORM-1

Return results & electronic copy to:  
 Computer Dept at address at top of page

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

| PROJ. NO.                                 |      | PROJECT NAME      |      |               |                              |                                      |   |                                |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|---|------|-------------------|------|---------------|------------------------------|--------------------------------------|---|--------------------------------|------------|----------------------------------|--|--|--------|---------------------------------|--|--|--|-----------------|--|--|--|---------|--|
| 0931                                      |      | ASARCO-EIPASO, TX |      |               |                              |                                      |   |                                |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
| SAMPLERS: (Signature)<br>Douglas M. Solon |      |                   |      |               |                              |                                      |   |                                |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
| DATE                                      | TIME | COMP.             | GRAB | SAMPLE NUMBER | NO.<br>OF<br>CON-<br>TAINERS | Commons UF/RAW                       | Nutrients UF/H <sub>2</sub> SO <sub>4</sub> | Diss. Metal F/HNO <sub>3</sub> | CN UF/NaOH | Total Metals UF/HNO <sub>3</sub> | Total Recoverable Metals UF/HNO <sub>3</sub> | BTEX   | TPH    |                                 |  |  |  |                 |  |  |  | REMARKS |  |
| 11-11-98                                  | 1425 |                   |      | EPR1-9811-150 | 3                            | X                                    | X   | X                              |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|   | 1445 |                   |      | EPR1-9811-144 | 3                            | X                                    | X   | X                              |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|   | 1515 |                   |      | EPR1-9811-147 | 3                            | X                                    | X   | A                              |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|   | 1535 |                   |      | EPR1-9811-143 | 3                            | X                                    | X   | A                              |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
| 11-12-98                                  | 820  |                   |      | EPR1-9811-151 | 3                            | X                                    | X   | A                              |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|   | 830  |                   |      | EPR1-9811-181 | 3                            | X                                    | X   | X                              |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|   | 845  |                   |      | EPR1-9811-174 | 4                            | X                                    | X   | X                              |            | X                                |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|   | 930  |                   |      | EPR1-9811-149 | 3                            | X                                    | X   | A                              |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|   | 1020 |                   |      | EPR1-9811-148 | 3                            | X                                    | X   | A                              |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|   | 1040 |                   |      | EPR1-9811-173 | 4                            | X                                    | A   | A                              |            | X                                |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
| Relinquished (Signature)                  |      |                   |      |               |                              | Date/Time                            | Received by: (Signature)                    |                                |            | Lab                              |  |  | P.O. # | Shipped via: Bus, Fed Ex, UPS   |  |  |  |                 |  |  |  |         |  |
| Douglas M. Solon                          |      |                   |      |               |                              | 11-12-98<br>1400                     |   |                                |            | BSC - SALT LAKE CITY, UT         |  |  |        | Other _____<br>Air Bill # _____ |  |  |  |                 |  |  |  |         |  |
| Relinquished (Signature)                  |      |                   |      |               |                              | Date/Time                            | Received by: (Signature)                    |                                |            | Remarks                          |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
|   |      |                   |      |               |                              |                                      |   |                                |            |                                  |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
| Relinquished (Signature)                  |      |                   |      |               |                              | Date/Time                            | Received for Laboratory by:<br>(Signature)  |                                |            | Date/Time                        |  | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits<br><input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter<br><input type="checkbox"/> Other _____ |        |                                 |  |  |  |                 |  |  |  |         |  |
|   |      |                   |      |               |                              |                                      | [Signature]                                 |                                |            | 11-13-98 10:30                   |  |  |        |                                 |  |  |  |                 |  |  |  |         |  |
| HF FORM-1-4/95                            |      |                   |      |               |                              | Return results & electronic copy to: |   |                                |            |                                  |  | Split Samples:<br><input type="checkbox"/> Accepted <input type="checkbox"/> Declined  |        |                                 |  |  |  | Signature _____ |  |  |  |         |  |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982343

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L982343-1 | 16-NOV-98      | EPRI-9811-123 | AS (D)    | 3.7    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 520.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 922.   | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 11580. | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025  | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|           |                |               | F-        | 5.0    | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | 1.0    | ppm       | BD      | 02-DEC-98     | 180       | 236.1  |
|           |                |               | HCO3      | 1128.  | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 299.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | MG        | 210.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 2085.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050  | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.2    | pH        | BD      | 20-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .036   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 4912.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 9281.  | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 81.    | ppm       | MO      | 20-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | <.020  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982343-2 | 16-NOV-98      | EPRI-9811-126 | AS (D)    | .008   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 455.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 747.   | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 8530.  | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025  | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|           |                |               | F-        | 1.6    | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | .11    | ppm       | BD      | 02-DEC-98     | 180       | 236.1  |
|           |                |               | HCO3      | 340.   | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 23.    | ppm       | BD      | 02-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 192.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1496.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 131.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982343

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982343-2 | 16-NOV-98      | EPRI-9811-126 | PH        | 7.6   | pH        | BD      | 20-NOV-98     | 150.1     |        |
|           |                |               | SE(D)     | .29   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 3377. | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 7453. | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 66.   | ppm       | MO      | 20-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | .020  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982343-3 | 16-NOV-98      | EPRI-9811-130 | AS(D)     | .007  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 368.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 640.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 7280. | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|           |                |               | F-        | 1.9   | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .12   | ppm       | BD      | 02-DEC-98     | 180       | 236.1  |
|           |                |               | HCO3      | 524.  | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 25.   | ppm       | BD      | 02-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 150.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1270. | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 31.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.6   | pH        | BD      | 20-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | .15   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 2778. | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 6004. | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 13.   | ppm       | MO      | 20-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982343-4 | 16-NOV-98      | EPRI-9811-122 | AS(D)     | .52   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 41.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 174.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 2070. | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|           |                |               | F-        | .89   | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982343

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982343-4 | 16-NOV-98      | EPRI-9811-122 | FE(D)     | .26   | ppm       | BD      | 02-DEC-98     | 180       | 236.1  |
|           |                |               | HCO3      | 860.  | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 20.   | ppm       | BD      | 02-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 53.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 346.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | .054  | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.6   | pH        | BD      | 20-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 64.   | ppm       | LV      | 01-DEC-98     | 28        | 9036   |
|           |                |               | TDS       | 1323. | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 72.   | ppm       | MO      | 20-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982343-5 | 16-NOV-98      | EPRI-9811-104 | AS(D)     | 1.6   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 334.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 547.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 5580. | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|           |                |               | F-        | 1.0   | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |
|           |                |               | FE(D)     | .75   | ppm       | BD      | 02-DEC-98     | 180       | 236.1  |
|           |                |               | HCO3      | 724.  | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 18.   | ppm       | BD      | 02-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 115.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1024. | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 16.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.5   | pH        | BD      | 20-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | .29   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 1731. | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 4367. | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |
| L982343-6 | 16-NOV-98      | EPRI-9811-175 | TSS       | 329.  | ppm       | MO      | 20-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | .021  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | AS(D)     | 7.0   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 218.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982343

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982343-6 | 16-NOV-98      | EPRI-9811-175 | CD (D)    | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 1022. | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 5650. | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|           |                |               | F-        | 2.1   | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | 9.0   | ppm       | BD      | 02-DEC-98     | 180       | 236.1  |
|           |                |               | HCO3      | 695.  | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 36.   | ppm       | BD      | 02-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 74.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1118. | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | .14   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 7.2   | pH        | BD      | 20-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .094  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | SO4=      | 897.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 3105. | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 753.  | ppm       | MO      | 20-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .020  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982343-7 | 16-NOV-98      | EPRI-9811-110 | AS (D)    | .008  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CA        | 54.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | CL-       | 777.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 7480. | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|           |                |               | F-        | 5.2   | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 02-DEC-98     | 180       | 236.1  |
|           |                |               | HCO3      | 1428. | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 126.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | MG        | 78.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1292. | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 13.   | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|           |                |               | PH        | 8.0   | pH        | BD      | 20-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .054  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982343

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982343-7 | 16-NOV-98      | EPRI-9811-110 | SO4=      | 1407. | ppm       | LV      | 30-NOV-98 28  | 9036      |        |
|           |                |               | TDS       | 4045. | ppm       | JH      | 19-NOV-98 7   | 160.1     |        |
|           |                |               | TSS       | 441.  | ppm       | MO      | 20-NOV-98     | 160.2     |        |
|           |                |               | ZN(D)     | .083  | ppm       | KB      | 25-NOV-98 180 | 6020      |        |
| L982343-8 | 16-NOV-98      | EPRI-9811-109 | AS(D)     | .034  | ppm       | KB      | 25-NOV-98 180 | 6020      |        |
|           |                |               | CA        | 60.   | ppm       | JT      | 20-NOV-98 180 | 6010      |        |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-NOV-98 180 | 6020      |        |
|           |                |               | CL-       | 675.  | ppm       | LV      | 02-DEC-98 28  | 325.2     |        |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 20-NOV-98     | 310.1     |        |
|           |                |               | COND.     | 5690. | umhos     | BD      | 19-NOV-98 28  | 120.1     |        |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-NOV-98 180 | 6010      |        |
|           |                |               | CU(D)     | <.025 | ppm       | BD      | 03-DEC-98 180 | 220.1     |        |
|           |                |               | F-        | 5.5   | ppm       | LV      | 02-DEC-98 28  | 340.2     |        |
|           |                |               | FE(D)     | .20   | ppm       | BD      | 02-DEC-98 180 | 236.1     |        |
|           |                |               | HCO3      | 1708. | ppm CaCO3 | BD      | 20-NOV-98 14  | 310.1     |        |
|           |                |               | K         | 450.  | ppm       | JT      | 20-NOV-98 180 | 6010      |        |
|           |                |               | MG        | 46.   | ppm       | JT      | 20-NOV-98 180 | 6010      |        |
|           |                |               | NA        | 1022. | ppm       | JT      | 20-NOV-98 180 | 6010      |        |
|           |                |               | NO2/NO3   | <.050 | ppm       | LV      | 24-NOV-98 28  | 353.2     |        |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 25-NOV-98 180 | 6020      |        |
|           |                |               | PH        | 8.0   | pH        | BD      | 20-NOV-98     | 150.1     |        |
|           |                |               | SE(D)     | .016  | ppm       | KB      | 25-NOV-98 180 | 6020      |        |
|           |                |               | SO4=      | 404.  | ppm       | LV      | 01-DEC-98 28  | 9036      |        |
|           |                |               | TDS       | 3497. | ppm       | JH      | 19-NOV-98 7   | 160.1     |        |
|           |                |               | TSS       | 34.   | ppm       | MO      | 20-NOV-98     | 160.2     |        |
|           |                |               | ZN(D)     | .026  | ppm       | KB      | 25-NOV-98 180 | 6020      |        |
| L982343-9 | 16-NOV-98      | EPRI-9811-112 | AS(D)     | .062  | ppm       | KB      | 25-NOV-98 180 | 6020      |        |
|           |                |               | CA        | 179.  | ppm       | JT      | 20-NOV-98 180 | 6010      |        |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 25-NOV-98 180 | 6020      |        |
|           |                |               | CL-       | 1087. | ppm       | LV      | 02-DEC-98 28  | 325.2     |        |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 20-NOV-98     | 310.1     |        |
|           |                |               | COND.     | 5390. | umhos     | BD      | 19-NOV-98 28  | 120.1     |        |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 20-NOV-98 180 | 6010      |        |
|           |                |               | CU(D)     | <.025 | ppm       | BD      | 03-DEC-98 180 | 220.1     |        |
|           |                |               | F-        | 2.4   | ppm       | LV      | 02-DEC-98 28  | 340.2     |        |
|           |                |               | FE(D)     | .16   | ppm       | BD      | 02-DEC-98 180 | 236.1     |        |
|           |                |               | HCO3      | 1070. | ppm CaCO3 | BD      | 20-NOV-98 14  | 310.1     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982343

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982343-9  | 16-NOV-98      | EPRI-9811-112 | K         | 29.   | ppm       | BD      | 02-DEC-98     | 180       | 258.1  |
|            |                |               | MG        | 53.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1051. | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | <.050 | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.7   | pH        | BD      | 20-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 298.  | ppm       | LV      | 01-DEC-98     | 28        | 9036   |
|            |                |               | TDS       | 3328. | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 12.   | ppm       | MO      | 20-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | <.020 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982343-10 | 16-NOV-98      | EPRI-9811-113 | AS (D)    | 2.4   | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | CA        | 113.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 852.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 5470. | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CU (D)    | <.025 | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|            |                |               | F-        | 1.9   | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |
|            |                |               | FE (D)    | 1.3   | ppm       | BD      | 02-DEC-98     | 180       | 236.1  |
|            |                |               | HCO3      | 1180. | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 120.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | MG        | 35.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1134. | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | .055  | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 7.5   | pH        | BD      | 20-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | .063  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 515.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 3422. | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 166.  | ppm       | MO      | 20-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | <.020 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
| L982343-11 | 16-NOV-98      | EPRI-9811-120 | AS (D)    | 40.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|            |                |               | CA        | 523.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 842.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982343

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L982343-11 | 16-NOV-98      | EPRI-9811-120 | CO3       | <1.0   | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 9940.  | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|            |                |               | CR(D)     | <.010  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CU(D)     | .025   | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|            |                |               | F-        | 20.    | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |
|            |                |               | FE(D)     | 71.    | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | 700.   | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 201.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | MG        | 314.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1559.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | <.050  | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 6.5    | pH        | BD      | 20-NOV-98     |           | 150.1  |
|            |                |               | SE(D)     | <.10*  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 4598.  | ppm       | LV      | 01-DEC-98     | 28        | 9036   |
|            |                |               | TDS       | 8458.  | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 1820.  | ppm       | MO      | 20-NOV-98     |           | 160.2  |
|            |                |               | ZN(D)     | 27.    | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
| L982343-12 | 16-NOV-98      | EPRI-9811-117 | AS(D)     | 294.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|            |                |               | CA        | 470.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CD(D)     | 38.    | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | CL-       | 750.   | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0   | ppm CaCO3 | BD      | 20-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 10800. | umhos     | BD      | 19-NOV-98     | 28        | 120.1  |
|            |                |               | CR(D)     | .037   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | CU(D)     | .025   | ppm       | BD      | 03-DEC-98     | 180       | 220.1  |
|            |                |               | F-        | 27.    | ppm       | LV      | 02-DEC-98     | 28        | 340.2  |
|            |                |               | FE(D)     | 1541.  | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | HCO3      | <1.0   | ppm CaCO3 | BD      | 20-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 240.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | MG        | 258.   | ppm       | JT      | 20-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 1549.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | <.050  | ppm       | LV      | 24-NOV-98     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | PH        | 3.7    | pH        | BD      | 20-NOV-98     |           | 150.1  |
|            |                |               | SE(D)     | <.10*  | ppm       | KB      | 25-NOV-98     | 180       | 6020   |
|            |                |               | SO4=      | 8976.  | ppm       | LV      | 01-DEC-98     | 28        | 9036   |
|            |                |               | TDS       | 15347. | ppm       | JH      | 19-NOV-98     | 7         | 160.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982343

| LAB NO     | DATE      |  | DESCRIPTION   | PARAMETER | VALUE | UNITS | ANALYST | DATE      |      | HOLD   |  |
|------------|-----------|--|---------------|-----------|-------|-------|---------|-----------|------|--------|--|
|            | COLLECTED |  |               |           |       |       |         | ANALYZED  | DAYS | METHOD |  |
| L982343-12 | 16-NOV-98 |  | EPRI-9811-117 | TSS       | 515.  | ppm   | MO      | 20-NOV-98 |      | 160.2  |  |
|            |           |  |               | ZN(D)     | 975.  | ppm   | JT      | 24-NOV-98 | 180  | 6010   |  |

PH is a field parameter therefore holding time cannot be met by the laboratory.

\* = Detection limits for some parameters have been raised due to matrix interference.

Approved

Reviewer



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981469

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE   | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|---------|------------|---------|---------------|-----------|--------|
| WG981469-1 |                | Matrix Spike       | AS (D)    | 110     | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CD (D)    | 98      | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CL-       | 102     | % RECOVERY | LV      | 02-DEC-98     | 325.2     |        |
|            |                |                    | CR (D)    | 93      | % RECOVERY | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CU (D)    | 85      | % RECOVERY | BD      | 03-DEC-98     | 220.1     |        |
|            |                |                    | F-        | 99      | % RECOVERY | LV      | 02-DEC-98     | 340.2     |        |
|            |                |                    | FE (D)    | SR>4xSA | % RECOVERY | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 104     | % RECOVERY | LV      | 24-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | 92      | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | 93      | % RECOVERY | KB      | 02-DEC-98     | 6020      |        |
|            |                |                    | SO4=      | 83      | % RECOVERY | LV      | 01-DEC-98     | 9036      |        |
|            |                |                    | ZN (D)    | 94      | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
| WG981469-2 |                | Prep Blank         | AS (D)    | <.005   | ppm        | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CA        | <1.0    | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | <.005   | ppm        | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CL-       | <1.0    | ppm        | LV      | 02-DEC-98     | 325.2     |        |
|            |                |                    | CO3       | <1.0    | ppm CaCO3  | BD      | 20-NOV-98     | 310.1     |        |
|            |                |                    | COND.     | <5.0    | umhos      | BD      | 19-NOV-98     | 120.1     |        |
|            |                |                    | CR (D)    | <.010   | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CU (D)    | <.025   | ppm        | BD      | 03-DEC-98     | 220.1     |        |
|            |                |                    | F-        | <.10    | ppm        | LV      | 02-DEC-98     | 340.2     |        |
|            |                |                    | FE (D)    | <.10    | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | HCO3      | <1.0    | ppm CaCO3  | BD      | 20-NOV-98     | 310.1     |        |
|            |                |                    | K         | <5.0    | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | MG        | <1.0    | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | NA        | <2.0    | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050   | ppm        | LV      | 24-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | <.003   | ppm        | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | <.005   | ppm        | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0    | ppm        | LV      | 01-DEC-98     | 9036      |        |
|            |                |                    | TDS       | <10.    | ppm        | JH      | 19-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0    | ppm        | MO      | 20-NOV-98     | 160.2     |        |
|            |                |                    | ZN (D)    | <.020   | ppm        | KB      | 25-NOV-98     | 6020      |        |
| WG981469-3 |                | Laboratory Control | AS (D)    | 98      | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CA        | 102     | % RECOVERY | JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | 97      | % RECOVERY | KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CL-       | 98      | % RECOVERY | LV      | 02-DEC-98     | 325.2     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981469

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS | ANALYST     | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|-------|-------------|---------------|-----------|--------|
| WG981469-3 |                | Laboratory Control | COND.     | 100   | %     | RECOVERY BD | 19-NOV-98     | 120.1     |        |
|            |                |                    | CR (D)    | 99    | %     | RECOVERY JT | 20-NOV-98     | 6010      |        |
|            |                |                    | CU (D)    | 100   | %     | RECOVERY BD | 03-DEC-98     | 220.1     |        |
|            |                |                    | F-        | 99    | %     | RECOVERY LV | 02-DEC-98     | 340.2     |        |
|            |                |                    | FE (D)    | 101   | %     | RECOVERY JT | 20-NOV-98     | 6010      |        |
|            |                |                    | HCO3      | 105   | %     | RECOVERY BD | 20-NOV-98     | 310.1     |        |
|            |                |                    | K         | 91    | %     | RECOVERY JT | 20-NOV-98     | 6010      |        |
|            |                |                    | MG        | 101   | %     | RECOVERY JT | 20-NOV-98     | 6010      |        |
|            |                |                    | NA        | 95    | %     | RECOVERY JT | 20-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 105   | %     | RECOVERY LV | 24-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | 100   | %     | RECOVERY KB | 25-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | 100   | %     | RECOVERY KB | 25-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | 95    | %     | RECOVERY LV | 01-DEC-98     | 9036      |        |
|            |                |                    | TDS       | 100   | %     | RECOVERY JH | 19-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | 95    | %     | RECOVERY MO | 20-NOV-98     | 160.2     |        |
|            |                |                    | ZN (D)    | 100   | %     | RECOVERY KB | 25-NOV-98     | 6020      |        |
| WG981469-4 |                | Duplicate          | AS (D)    | 10.   | %     | RPD KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CA        | <1    | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CD (D)    | <1    | %     | RPD KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | CL-       | 4.7   | %     | RPD LV      | 02-DEC-98     | 325.2     |        |
|            |                |                    | CO3       | <1    | %     | RPD BD      | 20-NOV-98     | 310.1     |        |
|            |                |                    | COND.     | <1    | %     | RPD BD      | 19-NOV-98     | 120.1     |        |
|            |                |                    | CR (D)    | <1    | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | CU (D)    | <1    | %     | RPD BD      | 03-DEC-98     | 220.1     |        |
|            |                |                    | F-        | 1.4   | %     | RPD LV      | 02-DEC-98     | 340.2     |        |
|            |                |                    | FE (D)    | <1    | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | HCO3      | 2.0   | %     | RPD BD      | 20-NOV-98     | 310.1     |        |
|            |                |                    | K         | 9.4   | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | MG        | <1    | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | NA        | <1    | %     | RPD JT      | 20-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <1    | %     | RPD LV      | 24-NOV-98     | 353.2     |        |
|            |                |                    | PB (D)    | <1    | %     | RPD KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SE (D)    | <1    | %     | RPD KB      | 25-NOV-98     | 6020      |        |
|            |                |                    | SO4=      | 14.   | %     | RPD LV      | 01-DEC-98     | 9036      |        |
|            |                |                    | TDS       | <1    | %     | RPD JH      | 19-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | 3.0   | %     | RPD MO      | 20-NOV-98     | 160.2     |        |
|            |                |                    | ZN (D)    | <1    | %     | RPD KB      | 25-NOV-98     | 6020      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981469

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE   | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|---------|------------|---------|---------------|-----------|--------|
| WG981469-5 |                | Practical Quantitation Limit | AS (D)    | .005    | ppm        |         |               | 6020      |        |
|            |                |                              | CA        | 1.0     | ppm        |         |               | 6010      |        |
|            |                |                              | CD (D)    | .005    | ppm        |         |               | 6020      |        |
|            |                |                              | CL-       | 1.0     | ppm        |         |               | 325.2     |        |
|            |                |                              | CO3       | 1.0     | ppm CaCO3  |         |               | 310.1     |        |
|            |                |                              | COND.     | 5.0     | umhos      |         |               | 120.1     |        |
|            |                |                              | CR (D)    | .010    | ppm        |         |               | 6010      |        |
|            |                |                              | CU (D)    | .025    | ppm        |         |               | 220.1     |        |
|            |                |                              | F-        | .10     | ppm        |         |               | 340.2     |        |
|            |                |                              | FE (D)    | .10     | ppm        |         |               | 6010      |        |
|            |                |                              | HCO3      | 1.0     | ppm CaCO3  |         |               | 310.1     |        |
|            |                |                              | K         | 5.0     | ppm        |         |               | 6010      |        |
|            |                |                              | MG        | 1.0     | ppm        |         |               | 6010      |        |
|            |                |                              | NA        | 2.0     | ppm        |         |               | 6010      |        |
|            |                |                              | NO2/NO3   | .050    | ppm        |         |               | 353.2     |        |
|            |                |                              | PB (D)    | .003    | ppm        |         |               | 6020      |        |
|            |                |                              | SE (D)    | .005    | ppm        |         |               | 6020      |        |
|            |                |                              | SO4=      | 2.0     | ppm        |         |               | 9036      |        |
|            |                |                              | TDS       | 10.     | ppm        |         |               | 160.1     |        |
|            |                |                              | TSS       | 1.0     | ppm        |         |               | 160.2     |        |
|            |                |                              | ZN (D)    | .020    | ppm        |         |               | 6020      |        |
| WG981469-6 |                | Matrix Spike                 | AS (D)    | SR>4xSA | % RECOVERY | JT      | 20-NOV-98     | 6010      |        |
|            |                |                              | FE (D)    | 80      | % RECOVERY | BD      | 02-DEC-98     | 236.1     |        |
|            |                |                              | ZN (D)    | SR>4xSA | % RECOVERY | JT      | 20-NOV-98     | 6010      |        |
| WG981469-7 |                | Prep Blank                   | AS (D)    | <.010   | ppm        | JT      | 20-NOV-98     | 6010      |        |
|            |                |                              | FE (D)    | <.10    | ppm        | BD      | 02-DEC-98     | 236.1     |        |
|            |                |                              | K         | <5.0    | ppm        | BD      | 02-DEC-98     | 258.1     |        |
|            |                |                              | ZN (D)    | <.020   | ppm        | JT      | 20-NOV-98     | 6010      |        |
| WG981469-8 |                | Laboratory Control Samples   | AS (D)    | 100     | % RECOVERY | JT      | 20-NOV-98     | 6010      |        |
|            |                |                              | FE (D)    | 100     | % RECOVERY | BD      | 02-DEC-98     | 236.1     |        |
|            |                |                              | K         | 110     | % RECOVERY | BD      | 02-DEC-98     | 258.1     |        |
|            |                |                              | ZN (D)    | 95      | % RECOVERY | JT      | 20-NOV-98     | 6010      |        |
| WG981469-9 |                | Duplicate                    | AS (D)    | <1      | % RPD      | JT      | 20-NOV-98     | 6010      |        |
|            |                |                              | FE (D)    | 5.5     | % RPD      | BD      | 02-DEC-98     | 236.1     |        |
|            |                |                              | K         | <1      | % RPD      | BD      | 02-DEC-98     | 258.1     |        |

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project )

Batch No: WG981469

| LAB NO     | DATE<br>COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE<br>ANALYZED | HOLD<br>DAYS | METHOD |
|------------|-------------------|-------------|-----------|-------|-------|---------|------------------|--------------|--------|
| WG981469-9 |                   | Duplicate   | ZN(D)     | <1    | % RPD | JT      | 20-NOV-98        |              | 6010   |

Approved

*Vince Kella*

Reviewer

## CHAIN OF CUSTODY RECORD

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[illegible]

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982359

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982359-1 | 18-NOV-98      | EPRI-9811-155 | AS (D)    | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CA        | 220.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CL-       | 757.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 5580. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | F-        | .77   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|           |                |               | HCO3      | 192.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 30.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 121.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 983.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | <.050 | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PH        | 7.6   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .018  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | SO4=      | 1948. | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 4258. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 59.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | .020  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
| L982359-2 | 18-NOV-98      | EPRI-9811-171 | AS (D)    | .34   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | AS (TR)   | .54   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CA        | 266.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | 1.9   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CD (TR)   | 2.0   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CL-       | 630.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 8260. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CR (TR)   | <.010 | ppm       | JT      | 24-NOV-98     |           | 6010   |
|           |                |               | CU (D)    | .51   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CU (TR)   | 1.4   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | F-        | 7.5   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | .12   | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|           |                |               | FE (TR)   | 1.1   | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|           |                |               | HCO3      | 115.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982359

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982359-2 | 18-NOV-98      | EPRI-9811-171 | K         | 64.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 54.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 1865. | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 6.9   | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|           |                |               | PB (D)    | .18   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PB (TR)   | .70   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PH        | 8.0   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | .38   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | SE (TR)   | .37   | ppm       | KB      | 01-DEC-98     |           | 6020   |
|           |                |               | SO4=      | 3866. | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 6712. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 22.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | 3.6   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | ZN (TR)   | 4.3   | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
| L982359-3 | 18-NOV-98      | EPRI-9811-164 | AS (D)    | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | AS (TR)   | .008  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CA        | 105.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CD (TR)   | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CL-       | 234.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | 8.0   | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 1893. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CR (TR)   | <.010 | ppm       | JT      | 24-NOV-98     |           | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CU (TR)   | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | F-        | .72   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|           |                |               | FE (TR)   | .38   | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|           |                |               | HCO3      | 218.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 12.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 25.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 282.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 1.9   | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PB (TR)   | .003  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PH        | 8.5   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982359

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982359-3 | 18-NOV-98      | EPRI-9811-164 | SE (TR)   | <.005 | ppm       | KB      | 01-DEC-98     |           | 6020   |
|           |                |               | SO4=      | 418.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 1272. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 25.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | ZN (TR)   | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
| L982359-4 | 18-NOV-98      | EPRI-9811-170 | AS (D)    | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | AS (TR)   | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CA        | 102.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CD (TR)   | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CL-       | 238.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | 8.0   | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 1884. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CR (TR)   | <.010 | ppm       | JT      | 24-NOV-98     |           | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CU (TR)   | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | F-        | .72   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|           |                |               | FE (TR)   | .27   | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|           |                |               | HCO3      | 218.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 12.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 24.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 273.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 1.9   | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PB (TR)   | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PH        | 8.5   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | SE (TR)   | <.005 | ppm       | KB      | 01-DEC-98     |           | 6020   |
|           |                |               | SO4=      | 443.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 1259. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 19.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | ZN (TR)   | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982359

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982359-5 | 18-NOV-98      | EPRI-9811-169 | AS (D)    | .006  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | AS (TR)   | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CA        | 105.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CD (TR)   | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CL-       | 232.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | 8.0   | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 1877. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CR (TR)   | <.010 | ppm       | JT      | 24-NOV-98     |           | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CU (TR)   | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | F-        | .72   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|           |                |               | FE (TR)   | .30   | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|           |                |               | HCO3      | 218.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 12.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 25.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 277.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 1.9   | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PB (TR)   | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PH        | 8.4   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | SE (TR)   | <.005 | ppm       | KB      | 01-DEC-98     |           | 6020   |
|           |                |               | SO4=      | 431.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 1283. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 20.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | ZN (TR)   | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
| L982359-6 | 18-NOV-98      | EPRI-9811-162 | AS (D)    | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | AS (TR)   | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CA        | 102.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CD (TR)   | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CL-       | 234.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | 8.0   | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 1877. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982359

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982359-6 | 18-NOV-98      | EPRI-9811-162 | CR (D)    | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CR (TR)   | <.010 | ppm       | JT      | 24-NOV-98     |           | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CU (TR)   | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | F-        | .72   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|           |                |               | FE (TR)   | .31   | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|           |                |               | HCO3      | 216.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 12.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 24.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 275.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 2.1   | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PB (TR)   | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PH        | 8.5   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | SE (TR)   | <.005 | ppm       | KB      | 01-DEC-98     |           | 6020   |
|           |                |               | SO4=      | 436.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 1269. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 20.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | ZN (TR)   | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
| L982359-7 | 18-NOV-98      | EPRI-9811-168 | AS (D)    | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | AS (TR)   | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CA        | 102.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CD (TR)   | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CL-       | 246.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | 8.0   | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 1877. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CR (TR)   | <.010 | ppm       | JT      | 24-NOV-98     |           | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CU (TR)   | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | F-        | .74   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|           |                |               | FE (TR)   | .47   | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|           |                |               | HCO3      | 214.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220).

Batch No: L982359

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982359-7 | 18-NOV-98      | EPRI-9811-168 | K         | 12.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 24.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 276.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 2.0   | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PB(TR)    | .003  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PH        | 8.5   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | SE(TR)    | <.005 | ppm       | KB      | 01-DEC-98     |           | 6020   |
|           |                |               | SO4=      | 438.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 1219. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 23.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | ZN(TR)    | .020  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
| L982359-8 | 18-NOV-98      | PPRI-9811-182 | AS(D)     | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | AS(TR)    | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CA        | 102.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CD(TR)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CL-       | 234.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | 8.0   | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 1885. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CR(TR)    | <.010 | ppm       | JT      | 24-NOV-98     |           | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CU(TR)    | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | F-        | .73   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|           |                |               | FE(TR)    | .34   | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|           |                |               | HCO3      | 214.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 12.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 24.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 275.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 2.1   | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PB(TR)    | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PH        | 8.5   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982359

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982359-8 | 18-NOV-98      | PPRI-9811-182 | SE (TR)   | <.005 | ppm       | KB      | 01-DEC-98     | 6020      |        |
|           |                |               | SO4=      | 430.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 1256. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 17.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | ZN (TR)   | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
| L982359-9 | 18-NOV-98      | EPRI-9811-167 | AS (D)    | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | AS (TR)   | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CA        | 100.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CD (TR)   | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CL-       | 243.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|           |                |               | CO3       | 8.0   | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|           |                |               | COND.     | 1894. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | CR (TR)   | <.010 | ppm       | JT      | 24-NOV-98     |           | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | CU (TR)   | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | F-        | .73   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10  | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|           |                |               | FE (TR)   | .27   | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|           |                |               | HCO3      | 212.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |
|           |                |               | K         | 12.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|           |                |               | MG        | 23.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NA        | 278.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|           |                |               | NO2/NO3   | 2.3   | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PB (TR)   | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | PH        | 8.4   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|           |                |               | SE (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | SE (TR)   | <.005 | ppm       | KB      | 01-DEC-98     |           | 6020   |
|           |                |               | SO4=      | 439.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|           |                |               | TDS       | 1268. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|           |                |               | TSS       | 18.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|           |                |               | ZN (D)    | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|           |                |               | ZN (TR)   | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L982359

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L982359-10 | 18-NOV-98      | EPRI-9811-165 | AS (D)    | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | AS (TR)   | .007  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | CA        | 100.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | CD (TR)   | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | CL-       | 249.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|            |                |               | CO3       | 8.0   | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 1899. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |
|            |                |               | CR (D)    | <.010 | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|            |                |               | CR (TR)   | <.010 | ppm       | JT      | 24-NOV-98     |           | 6010   |
|            |                |               | CU (D)    | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | CU (TR)   | <.025 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | F-        | .74   | ppm       | LV      | 08-DEC-98     | 28        | 340.2  |
|            |                |               | FE (D)    | <.10  | ppm       | BD      | 07-DEC-98     | 180       | 236.1  |
|            |                |               | FE (TR)   | .25   | ppm       | BD      | 08-DEC-98     | 180       | 6010   |
|            |                |               | HCO3      | 207.  | ppm CaCO3 | BD      | 22-NOV-98     | 14        | 310.1  |
|            |                |               | K         | 12.   | ppm       | BD      | 07-DEC-98     | 180       | 258.1  |
|            |                |               | MG        | 24.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|            |                |               | NA        | 292.  | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|            |                |               | NO2/NO3   | 2.6   | ppm       | LV      | 07-DEC-98     | 28        | 353.2  |
|            |                |               | PB (D)    | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | PB (TR)   | <.003 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | PH        | 8.4   | pH        | BD      | 22-NOV-98     |           | 150.1  |
|            |                |               | SE (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | SE (TR)   | <.005 | ppm       | KB      | 01-DEC-98     |           | 6020   |
|            |                |               | SO4=      | 441.  | ppm       | LV      | 30-NOV-98     | 28        | 9036   |
|            |                |               | TDS       | 1269. | ppm       | JH      | 23-NOV-98     | 7         | 160.1  |
|            |                |               | TSS       | 12.   | ppm       | MO      | 24-NOV-98     |           | 160.2  |
|            |                |               | ZN (D)    | .024  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | ZN (TR)   | <.020 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
| L982359-11 | 18-NOV-98      | EPRI-9811-166 | AS (D)    | .010  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | AS (TR)   | .010  | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | CA        | 85.   | ppm       | JT      | 24-NOV-98     | 180       | 6010   |
|            |                |               | CD (D)    | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | CD (TR)   | <.005 | ppm       | KB      | 01-DEC-98     | 180       | 6020   |
|            |                |               | CL-       | 272.  | ppm       | LV      | 02-DEC-98     | 28        | 325.2  |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | BD      | 22-NOV-98     |           | 310.1  |
|            |                |               | COND.     | 1950. | umhos     | BD      | 23-NOV-98     | 28        | 120.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT


El Paso


Water and Solid Waste (Project 3220)

Batch No: L982359

| LAB NO     | DATE      |               | DESCRIPTION | PARAMETER | VALUE     | UNITS | ANALYST   | DATE     |       | HOLD | METHOD |
|------------|-----------|---------------|-------------|-----------|-----------|-------|-----------|----------|-------|------|--------|
|            | COLLECTED |               |             |           |           |       |           | ANALYZED | DAYS  |      |        |
| L982359-11 | 18-NOV-98 | EPRI-9811-166 | CR(D)       | <.010     | ppm       | JT    | 24-NOV-98 | 180      | 6010  |      |        |
|            |           |               | CR(TR)      | <.010     | ppm       | JT    | 24-NOV-98 |          | 6010  |      |        |
|            |           |               | CU(D)       | <.025     | ppm       | KB    | 01-DEC-98 | 180      | 6020  |      |        |
|            |           |               | CU(TR)      | <.025     | ppm       | KB    | 01-DEC-98 | 180      | 6020  |      |        |
|            |           |               | F-          | .77       | ppm       | LV    | 08-DEC-98 | 28       | 340.2 |      |        |
|            |           |               | FE(D)       | <.10      | ppm       | BD    | 07-DEC-98 | 180      | 236.1 |      |        |
|            |           |               | FE(TR)      | .19       | ppm       | BD    | 08-DEC-98 | 180      | 6010  |      |        |
|            |           |               | HCO3        | 184.      | ppm CaCO3 | BD    | 22-NOV-98 | 14       | 310.1 |      |        |
|            |           |               | K           | 12.       | ppm       | BD    | 07-DEC-98 | 180      | 258.1 |      |        |
|            |           |               | MG          | 19.       | ppm       | JT    | 24-NOV-98 | 180      | 6010  |      |        |
|            |           |               | NA          | 310.      | ppm       | JT    | 24-NOV-98 | 180      | 6010  |      |        |
|            |           |               | NO2/NO3     | 5.5       | ppm       | LV    | 07-DEC-98 | 28       | 353.2 |      |        |
|            |           |               | PB(D)       | <.003     | ppm       | KB    | 01-DEC-98 | 180      | 6020  |      |        |
|            |           |               | PB(TR)      | <.003     | ppm       | KB    | 01-DEC-98 | 180      | 6020  |      |        |
|            |           |               | PH          | 8.3       | pH        | BD    | 22-NOV-98 |          | 150.1 |      |        |
|            |           |               | SE(D)       | <.005     | ppm       | KB    | 01-DEC-98 | 180      | 6020  |      |        |
|            |           |               | SE(TR)      | <.005     | ppm       | KB    | 01-DEC-98 |          | 6020  |      |        |
|            |           |               | SO4=        | 442.      | ppm       | LV    | 30-NOV-98 | 28       | 9036  |      |        |
|            |           |               | TDS         | 1298.     | ppm       | JH    | 23-NOV-98 | 7        | 160.1 |      |        |
|            |           |               | TSS         | 7.5       | ppm       | MO    | 24-NOV-98 |          | 160.2 |      |        |
|            |           |               | ZN(D)       | .034      | ppm       | KB    | 01-DEC-98 | 180      | 6020  |      |        |
|            |           |               | ZN(TR)      | .022      | ppm       | KB    | 01-DEC-98 | 180      | 6020  |      |        |

PH is a field parameter therefore holding time cannot be met by the laboratory.  
In some cases dissolved concentration exceeded totals and were confirmed by repeat analysis.

  
Approved

  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981485

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG981485-1 |                | Matrix Spike       | AS (TR)   | 102   | % RECOVERY | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | CD (TR)   | 108   | % RECOVERY | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | CL-       | 99    | % RECOVERY | LV      | 02-DEC-98     | 325.2     |        |
|            |                |                    | CR (TR)   | 98    | % RECOVERY | JT      | 24-NOV-98     | 6010      |        |
|            |                |                    | CU (TR)   | 102   | % RECOVERY | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | F-        | 97    | % RECOVERY | LV      | 08-DEC-98     | 340.2     |        |
|            |                |                    | FE (D)    | 88    | % RECOVERY | BD      | 07-DEC-98     | 236.1     |        |
|            |                |                    | FE (TR)   | 96    | % RECOVERY | BD      | 08-DEC-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 107   | % RECOVERY | LV      | 07-DEC-98     | 353.2     |        |
|            |                |                    | PB (TR)   | 99    | % RECOVERY | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | SE (TR)   | 105   | % RECOVERY | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | SO4=      | 84    | % RECOVERY | LV      | 30-NOV-98     | 9036      |        |
|            |                |                    | ZN (TR)   | 104   | % RECOVERY | KB      | 01-DEC-98     | 6020      |        |
| WG981485-2 |                | Prep Blank         | AS (TR)   | <.005 | ppm        | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | CA        | <1.0  | ppm        | JT      | 24-NOV-98     | 6010      |        |
|            |                |                    | CD (TR)   | <.005 | ppm        | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | CL-       | <1.0  | ppm        | LV      | 02-DEC-98     | 325.2     |        |
|            |                |                    | CO3       | <1.0  | ppm CaCO3  | BD      | 22-NOV-98     | 310.1     |        |
|            |                |                    | COND.     | <5.0  | umhos      | BD      | 23-NOV-98     | 120.1     |        |
|            |                |                    | CR (TR)   | <.010 | ppm        | JT      | 24-NOV-98     | 6010      |        |
|            |                |                    | CU (TR)   | <.025 | ppm        | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | F-        | <.050 | ppm        | LV      | 08-DEC-98     | 340.2     |        |
|            |                |                    | FE (D)    | <.10  | ppm        | BD      | 07-DEC-98     | 236.1     |        |
|            |                |                    | FE (TR)   | <.10  | ppm        | BD      | 08-DEC-98     | 6010      |        |
|            |                |                    | HCO3      | <1.0  | ppm CaCO3  | BD      | 22-NOV-98     | 310.1     |        |
|            |                |                    | K         | <5.0  | ppm        | BD      | 07-DEC-98     | 258.1     |        |
|            |                |                    | MG        | <1.0  | ppm        | JT      | 24-NOV-98     | 6010      |        |
|            |                |                    | NA        | <5.0  | ppm        | JT      | 24-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <.050 | ppm        | LV      | 07-DEC-98     | 353.2     |        |
|            |                |                    | PB (TR)   | <.003 | ppm        | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | SE (TR)   | <.005 | ppm        | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | SO4=      | <2.0  | ppm        | LV      | 30-NOV-98     | 9036      |        |
|            |                |                    | TDS       | <10.  | ppm        | JH      | 23-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | <1.0  | ppm        | MO      | 24-NOV-98     | 160.2     |        |
|            |                |                    | ZN (TR)   | <.020 | ppm        | KB      | 01-DEC-98     | 6020      |        |
| WG981485-3 |                | Laboratory Control | AS (TR)   | 107   | % RECOVERY | KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | CA        | 98    | % RECOVERY | JT      | 24-NOV-98     | 6010      |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981485

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS | ANALYST     | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|-------|-------------|---------------|-----------|--------|
| WG981485-3 |                | Laboratory Control | CD (TR)   | 104   | %     | RECOVERY KB | 01-DEC-98     | 6020      |        |
|            |                |                    | CL-       | 103   | %     | RECOVERY LV | 02-DEC-98     | 325.2     |        |
|            |                |                    | COND.     | 100   | %     | RECOVERY BD | 23-NOV-98     | 120.1     |        |
|            |                |                    | CR (TR)   | 98    | %     | RECOVERY JT | 24-NOV-98     | 6010      |        |
|            |                |                    | CU (TR)   | 102   | %     | RECOVERY KB | 01-DEC-98     | 6020      |        |
|            |                |                    | F-        | 99    | %     | RECOVERY LV | 08-DEC-98     | 340.2     |        |
|            |                |                    | FE (D)    | 95    | %     | RECOVERY BD | 07-DEC-98     | 236.1     |        |
|            |                |                    | FE (TR)   | 105   | %     | RECOVERY BD | 08-DEC-98     | 6010      |        |
|            |                |                    | HCO3      | 105   | %     | RECOVERY BD | 22-NOV-98     | 310.1     |        |
|            |                |                    | K         | 100   | %     | RECOVERY BD | 07-DEC-98     | 258.1     |        |
|            |                |                    | MG        | 95    | %     | RECOVERY JT | 24-NOV-98     | 6010      |        |
|            |                |                    | NA        | 96    | %     | RECOVERY JT | 24-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | 103   | %     | RECOVERY LV | 07-DEC-98     | 353.2     |        |
|            |                |                    | PB (TR)   | 114   | %     | RECOVERY KB | 01-DEC-98     | 6020      |        |
|            |                |                    | SE (TR)   | 107   | %     | RECOVERY KB | 01-DEC-98     | 6020      |        |
|            |                |                    | SO4=      | 109   | %     | RECOVERY LV | 30-NOV-98     | 9036      |        |
|            |                |                    | TDS       | 99    | %     | RECOVERY JH | 23-NOV-98     | 160.1     |        |
|            |                |                    | TSS       | 93    | %     | RECOVERY MO | 24-NOV-98     | 160.2     |        |
|            |                |                    | ZN (TR)   | 116   | %     | RECOVERY KB | 01-DEC-98     | 6020      |        |
| WG981485-4 |                | Duplicate          | AS (TR)   | 1.8   | %     | RPD KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | CA        | 1.5   | %     | RPD JT      | 24-NOV-98     | 6010      |        |
|            |                |                    | CD (TR)   | 4.9   | %     | RPD KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | CL-       | 2.8   | %     | RPD LV      | 02-DEC-98     | 325.2     |        |
|            |                |                    | CO3       | <1    | %     | RPD BD      | 22-NOV-98     | 310.1     |        |
|            |                |                    | COND.     | <1    | %     | RPD BD      | 23-NOV-98     | 120.1     |        |
|            |                |                    | CR (TR)   | <1    | %     | RPD JT      | 24-NOV-98     | 6010      |        |
|            |                |                    | CU (TR)   | <1    | %     | RPD KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | F-        | <1    | %     | RPD LV      | 08-DEC-98     | 340.2     |        |
|            |                |                    | FE (D)    | <1    | %     | RPD BD      | 07-DEC-98     | 236.1     |        |
|            |                |                    | FE (TR)   | <1    | %     | RPD BD      | 08-DEC-98     | 6010      |        |
|            |                |                    | HCO3      | 1.1   | %     | RPD BD      | 22-NOV-98     | 310.1     |        |
|            |                |                    | K         | <1    | %     | RPD BD      | 07-DEC-98     | 258.1     |        |
|            |                |                    | MG        | <1    | %     | RPD JT      | 24-NOV-98     | 6010      |        |
|            |                |                    | NA        | <1    | %     | RPD JT      | 24-NOV-98     | 6010      |        |
|            |                |                    | NO2/NO3   | <1    | %     | RPD LV      | 07-DEC-98     | 353.2     |        |
|            |                |                    | PB (TR)   | 2.8   | %     | RPD KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | SE (TR)   | 2.7   | %     | RPD KB      | 01-DEC-98     | 6020      |        |
|            |                |                    | SO4=      | 5.1   | %     | RPD LV      | 30-NOV-98     | 9036      |        |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981485

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|------------------------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| WG981485-4 |                | Duplicate                    | TDS       | <1    | % RPD     | JH      | 23-NOV-98     | 160.1     |        |
|            |                |                              | TSS       | 4.1   | % RPD     | MO      | 24-NOV-98     | 160.2     |        |
|            |                |                              | ZN(TR)    | 2.5   | % RPD     | KB      | 01-DEC-98     | 6020      |        |
| WG981485-5 |                | Practical Quantitation Limit | AS (D)    | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | AS (TR)   | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | CA        | 1.0   | ppm       |         |               | 6010      |        |
|            |                |                              | CD (D)    | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | CD (TR)   | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | CL-       | 1.0   | ppm       |         |               | 325.2     |        |
|            |                |                              | CO3       | 1.0   | ppm CaCO3 |         |               | 310.1     |        |
|            |                |                              | COND.     | 5.0   | umhos     |         |               | 120.1     |        |
|            |                |                              | CR (D)    | .010  | ppm       |         |               | 6010      |        |
|            |                |                              | CR (TR)   | .010  | ppm       |         |               | 6010      |        |
|            |                |                              | CU (D)    | .025  | ppm       |         |               | 6020      |        |
|            |                |                              | CU (TR)   | .025  | ppm       |         |               | 6020      |        |
|            |                |                              | F-        | .050  | ppm       |         |               | 340.2     |        |
|            |                |                              | FE (D)    | .10   | ppm       |         |               | 236.1     |        |
|            |                |                              | FE (TR)   | .10   | ppm       |         |               | 6010      |        |
|            |                |                              | HCO3      | 1.0   | ppm CaCO3 |         |               | 310.1     |        |
|            |                |                              | K         | 5.0   | ppm       |         |               | 258.1     |        |
|            |                |                              | MG        | 1.0   | ppm       |         |               | 6010      |        |
|            |                |                              | NA        | 5.0   | ppm       |         |               | 6010      |        |
|            |                |                              | NO2/NO3   | .050  | ppm       |         |               | 353.2     |        |
|            |                |                              | PB (D)    | .003  | ppm       |         |               | 6020      |        |
|            |                |                              | PB (TR)   | .003  | ppm       |         |               | 6020      |        |
|            |                |                              | SE (D)    | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | SE (TR)   | .005  | ppm       |         |               | 6020      |        |
|            |                |                              | SO4=      | 2.0   | ppm       |         |               | 9036      |        |
|            |                |                              | TDS       | 10.   | ppm       |         |               | 160.1     |        |
|            |                |                              | TSS       | 1.0   | ppm       |         |               | 160.2     |        |
|            |                |                              | ZN (D)    | .020  | ppm       |         |               | 6020      |        |
|            |                |                              | ZN (TR)   | .020  | ppm       |         |               | 6020      |        |

ASARCO TECHNICAL SERVICES CENTER


ANALYTICAL DATA REPORT


El Paso

Water and Solid Waste (Project 3220)

Batch No: WG981485

| LAB NO | DATE      | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE     | HOLD | METHOD |
|--------|-----------|-------------|-----------|-------|-------|---------|----------|------|--------|
|        | COLLECTED |             |           |       |       |         | ANALYZED | DAYS |        |

  
Approved

  
Ken Bilal  
Reviewer

## CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
 P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

| PROJ. NO.                                 |      | PROJECT NAME         |      |               | NO.<br>OF<br>CON-<br>TAINERS | Commons UF/RAW | Nutrients UF/H <sub>2</sub> SO <sub>4</sub> | Diss. Metal F/HNO <sub>3</sub> | CN UF/NaOH | Total Metals UF/HNO <sub>3</sub> | Total Recoverable Metals UF/HNO <sub>3</sub> | BTX | TPH |  |  |  |  |  |  |  | REMARKS |
|---|------|----------------------|------|---------------|------------------------------|----------------|---|--------------------------------|------------|----------------------------------|--|-----|-----|--|--|--|--|--|--|--|---------|
| 0931-                                     |      | ASARCO - EL PASO, TX |      |               |                              |                |   |                                |            |                                  |  |     |     |  |  |  |  |  |  |  |         |
| SAMPLERS: (Signature)<br>Douglas M. Solon |      |                      |      |               |                              |                |   |                                |            |                                  |  |     |     |  |  |  |  |  |  |  |         |
| DATE                                      | TIME | COMP.                | GRAB | SAMPLE NUMBER |                              |                |   |                                |            |                                  |  |     |     |  |  |  |  |  |  |  |         |
| 11-18-98                                  | 830  |                      |      | EPRI-9811-155 | 3                            | X              | X   | X                              |            |                                  |  |     |     |  |  |  |  |  |  |  |         |
|   | 900  |                      |      | EPRI-9811-171 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |
|   | 1330 |                      |      | EPRI-9811-164 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |
|   | 1345 |                      |      | EPRI-9811-170 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |
|   | 1400 |                      |      | EPRI-9811-169 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |
|   | 1415 |                      |      | EPRI-9811-162 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |
|   | 1430 |                      |      | EPRI-9811-168 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |
|   | 1435 |                      |      | EPRI-9811-182 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |
|   | 1500 |                      |      | EPRI-9811-167 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |
|   | 1530 |                      |      | EPRI-9811-165 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |
| 11-18-98                                  | 1545 |                      |      | EPRI-9811-166 | 4                            | X              | X   | X                              |            |                                  | X  |     |     |  |  |  |  |  |  |  |         |

|  |                               |   |                               |   |   |
|--|-------------------------------|---|-------------------------------|---|---|
| Relinquished (Signature)<br>Douglas M. Solon | Date/Time<br>11-19-98<br>1600 | Received by: (Signature)                                | Lab<br>TSC-SALT LAKE CITY, UT | P.O. #  | Shipped via: Bus, <del>Fed Ex</del> UPS<br>Other<br>Air Bill #                        |
| Relinquished (Signature)                     | Date/Time                     | Received by: (Signature)                                | Remarks                       |   |   |
| Relinquished (Signature)                     | Date/Time                     | Received for Laboratory by: (Signature)<br>Haween Otter | Date/Time<br>11-20-98 10:00   | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits<br><input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter<br><input type="checkbox"/> Other | Split Samples:<br><input type="checkbox"/> Accepted <input type="checkbox"/> Declined |

HFORM-

Return results & electronic copy to:  
 Computer Dept at address at top of page

## **SECTION I-3**

### **LABORATORY REPORTS FOR WATER SAMPLES, WINTER 1999**



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990218

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990218-1 | 03-FEB-99      | EPRI-9902-115 | AS (D)    | 0.26  | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CA        | 49.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CL-       | 307.  | ppm       | JN      | 25-FEB-99     | 28        | 325.2  |
|           |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 3130. | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|           |                |               | CR (D)    | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | F-        | 2.9   | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |
|           |                |               | FE (D)    | <0.1  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 276.  | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 22.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | MG        | 21.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 660.  | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 8.7   | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | PH        | 8.1   | pH Units  | DC      | 08-FEB-99     |           | 150.1  |
|           |                |               | SE (D)    | 0.15  | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | SO4=      | 743.  | ppm       | JN      | 24-FEB-99     | 28        | 9036   |
|           |                |               | TDS       | 2121. | ppm       | AKH     | 08-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 211.  | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|           |                |               | ZN (D)    | 0.030 | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-2 | 03-FEB-99      | EPRI-9902-100 | AS (D)    | 0.080 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CA        | 101.  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CL-       | 222.  | ppm       | JN      | 25-FEB-99     | 28        | 325.2  |
|           |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 1965. | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|           |                |               | CR (D)    | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | F-        | 0.93  | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |
|           |                |               | FE (D)    | 0.29  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 638.  | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 13.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | MG        | 27.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 321.  | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 0.21  | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990218

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990218-2 | 03-FEB-99      | EPRI-9902-100 | PH        | 8.1   | pH Units  | DC      | 08-FEB-99     | 150.1     |        |
|           |                |               | SE(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | SO4=      | 364.  | ppm       | JN      | 24-FEB-99     | 28        | 9036   |
|           |                |               | TDS       | 1295. | ppm       | AKH     | 08-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 3434. | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-3 | 03-FEB-99      | EPRI-9902-101 | AS(D)     | 0.037 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CA        | 74.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CL-       | 302.  | ppm       | JN      | 25-FEB-99     | 28        | 325.2  |
|           |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 2820. | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|           |                |               | CR(D)     | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | F-        | 2.4   | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |
|           |                |               | FE(D)     | 0.11  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 712.  | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 5.8   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | MG        | 30.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 570.  | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 0.28  | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB(D)     | 0.003 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | PH        | 8.0   | pH Units  | DC      | 08-FEB-99     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | SO4=      | 318.  | ppm       | JN      | 24-FEB-99     | 28        | 9036   |
|           |                |               | TDS       | 1818. | ppm       | AKH     | 08-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 16.   | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|           |                |               | ZN(D)     | 0.029 | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-4 | 03-FEB-99      | EPRI-9902-102 | AS(D)     | 0.014 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CA        | 415.  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CL-       | 844.  | ppm       | JN      | 25-FEB-99     | 28        | 325.2  |
|           |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 7270. | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|           |                |               | CR(D)     | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | F-        | 1.5   | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990218

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990218-4 | 03-FEB-99      | EPRI-9902-102 | FE (D)    | 0.23  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 367.  | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 34.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | MG        | 137.  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 1282. | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 0.38  | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | PH        | 7.9   | pH Units  | DC      | 08-FEB-99     |           | 150.1  |
|           |                |               | SE (D)    | 0.008 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | SO4=      | 2348. | ppm       | JN      | 24-FEB-99     | 28        | 9036   |
|           |                |               | TDS       | 5643. | ppm       | AKH     | 08-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 7.0   | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|           |                |               | ZN (D)    | <.020 | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-5 | 03-FEB-99      | EPRI-9902-103 | AS (D)    | 0.044 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CA        | 103.  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CD (D)    | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CL-       | 320.  | ppm       | JN      | 25-FEB-99     | 28        | 325.2  |
|           |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 2960. | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|           |                |               | CR (D)    | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CU (D)    | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | F-        | 1.8   | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |
|           |                |               | FE (D)    | 0.98  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 297.  | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|           |                |               | K         | <5.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | MG        | 34.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 553.  | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | <0.1  | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | PH        | 7.9   | pH Units  | DC      | 08-FEB-99     |           | 150.1  |
|           |                |               | SE (D)    | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | SO4=      | 702.  | ppm       | JN      | 24-FEB-99     | 28        | 9036   |
|           |                |               | TDS       | 1960. | ppm       | AKH     | 08-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 12.   | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|           |                |               | ZN (D)    | <.020 | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-6 | 03-FEB-99      | EPRI-9902-177 | AS (D)    | 0.056 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CA        | 110.  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990218

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990218-6 | 03-FEB-99      | EPRI-9902-177 | CD(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CL-       | 322.  | ppm       | JN      | 25-FEB-99     | 28        | 325.2  |
|           |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 2950. | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|           |                |               | CR(D)     | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | F-        | 1.7   | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |
|           |                |               | FE(D)     | 0.85  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 295.  | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|           |                |               | K         | <5.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | MG        | 36.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 570.  | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | <0.1  | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | PH        | 7.8   | pH Units  | DC      | 08-FEB-99     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | SO4=      | 735.  | ppm       | JN      | 24-FEB-99     | 28        | 9036   |
|           |                |               | TDS       | 1998. | ppm       | AKH     | 08-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 11.   | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-7 | 03-FEB-99      | EPRI-9902-178 | AS(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CA        | <1    | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | CL-       | <1.   | ppm       | JN      | 25-FEB-99     | 28        | 325.2  |
|           |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|           |                |               | COND.     | <10   | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|           |                |               | CR(D)     | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | F-        | <0.1  | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |
|           |                |               | FE(D)     | <0.1  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 1.0   | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|           |                |               | K         | <5.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | MG        | <1    | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|           |                |               | NA        | <5    | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | <0.1  | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|           |                |               | PH        | 6.0   | pH Units  | DC      | 08-FEB-99     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990218

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990218-7 | 03-FEB-99      | EPRI-9902-178 | SO4=      | 1.1   | ppm       | JN      | 24-FEB-99 28  | 9036      |        |
|           |                |               | TDS       | <10   | ppm       | AKH     | 08-FEB-99 7   | 160.1     |        |
|           |                |               | TSS       | <1.   | ppm       | AKH     | 08-FEB-99     | 160.2     |        |
|           |                |               | ZN(D)     | <.020 | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
| L990218-8 | 04-FEB-99      | EPRI-9902-116 | AS(D)     | 0.51  | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|           |                |               | CA        | 402.  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|           |                |               | CD(D)     | <.005 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|           |                |               | CL-       | 455.  | ppm       | JN      | 25-FEB-99 28  | 325.2     |        |
|           |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     | 310.1     |        |
|           |                |               | COND.     | 6410. | umhos     | AKH     | 08-FEB-99 28  | 120.1     |        |
|           |                |               | CR(D)     | <.01  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|           |                |               | CU(D)     | <.025 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|           |                |               | F-        | 1.0   | ppm       | BD      | 09-FEB-99 28  | 340.2     |        |
|           |                |               | FE(D)     | <0.1  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|           |                |               | HCO3      | 442.  | ppm CaCO3 | DC      | 08-FEB-99 14  | 310.1     |        |
|           |                |               | K         | 22.   | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|           |                |               | MG        | 145.  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|           |                |               | NA        | 1039. | ppm       | AKH     | 23-FEB-99 180 | 273.1     |        |
|           |                |               | NO2/NO3   | 66.   | ppm       | JN      | 08-MAR-99 28  | 353.2     |        |
|           |                |               | PB(D)     | <.003 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|           |                |               | PH        | 7.4   | pH Units  | DC      | 08-FEB-99     | 150.1     |        |
|           |                |               | SE(D)     | 2.9   | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|           |                |               | SO4=      | 2158. | ppm       | JN      | 24-FEB-99 28  | 9036      |        |
|           |                |               | TDS       | 5282. | ppm       | AKH     | 08-FEB-99 7   | 160.1     |        |
|           |                |               | TSS       | 93.   | ppm       | AKH     | 08-FEB-99     | 160.2     |        |
|           |                |               | ZN(D)     | <.020 | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
| L990218-9 | 04-FEB-99      | EPRI-9902-108 | AS(D)     | 0.79  | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|           |                |               | CA        | 447.  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|           |                |               | CD(D)     | 0.039 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|           |                |               | CL-       | 621.  | ppm       | JN      | 25-FEB-99 28  | 325.2     |        |
|           |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     | 310.1     |        |
|           |                |               | COND.     | 9910. | umhos     | AKH     | 08-FEB-99 28  | 120.1     |        |
|           |                |               | CR(D)     | <.01  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|           |                |               | CU(D)     | <.025 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|           |                |               | F-        | 2.3   | ppm       | BD      | 09-FEB-99 28  | 340.2     |        |
|           |                |               | FE(D)     | <0.1  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|           |                |               | HCO3      | 294.  | ppm CaCO3 | DC      | 08-FEB-99 14  | 310.1     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990218

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990218-9  | 04-FEB-99      | EPRI-9902-108 | K         | 76.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | MG        | 260.  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | NA        | 1801. | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|            |                |               | NO2/NO3   | 107.  | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | PH        | 7.4   | pH Units  | DC      | 08-FEB-99     |           | 150.1  |
|            |                |               | SE(D)     | 0.33  | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | SO4=      | 3750. | ppm       | JN      | 24-FEB-99     | 28        | 9036   |
|            |                |               | TDS       | 8707. | ppm       | AKH     | 08-FEB-99     | 7         | 160.1  |
|            |                |               | TSS       | 45.   | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|            |                |               | ZN(D)     | 0.039 | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-10 | 04-FEB-99      | EPRI-9902-114 | AS(D)     | 0.38  | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | CA        | 8.3   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | CD(D)     | 0.15  | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | CL-       | 7.6   | ppm       | JN      | 25-FEB-99     | 28        | 325.2  |
|            |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|            |                |               | COND.     | 133.  | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|            |                |               | CR(D)     | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | F-        | 0.56  | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |
|            |                |               | FE(D)     | <0.1  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | HCO3      | 16.   | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|            |                |               | K         | <5.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | MG        | 1.1   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | NA        | 14.   | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|            |                |               | NO2/NO3   | 1.4   | ppm       | JN      | 09-MAR-99     | 28        | 353.2  |
|            |                |               | PB(D)     | 0.004 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | PH        | 7.4   | pH Units  | DC      | 08-FEB-99     |           | 150.1  |
|            |                |               | SE(D)     | 0.057 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | SO4=      | 29.   | ppm       | JN      | 24-FEB-99     | 28        | 9036   |
|            |                |               | TDS       | 78.   | ppm       | AKH     | 08-FEB-99     | 7         | 160.1  |
|            |                |               | TSS       | 51.   | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|            |                |               | ZN(D)     | 0.52  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-11 | 04-FEB-99      | EPRI-9902-123 | AS(D)     | 0.74  | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | CA        | 254.  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | CL-       | 597.  | ppm       | JN      | 29-MAR-99     | 28        | 325.2  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990218

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990218-11 | 04-FEB-99      | EPRI-9902-123 | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     | 310.1     |        |
|            |                |               | COND.     | 5600. | umhos     | AKH     | 08-FEB-99 28  | 120.1     |        |
|            |                |               | CR (D)    | <.01  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|            |                |               | CU (D)    | <.025 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|            |                |               | F-        | 1.9   | ppm       | BD      | 09-FEB-99 28  | 340.2     |        |
|            |                |               | FE (D)    | <0.1  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|            |                |               | HCO3      | 650.  | ppm CaCO3 | DC      | 08-FEB-99 14  | 310.1     |        |
|            |                |               | K         | 31.   | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|            |                |               | MG        | 67.   | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|            |                |               | NA        | 1073. | ppm       | AKH     | 23-FEB-99 180 | 273.1     |        |
|            |                |               | NO2/NO3   | 0.38  | ppm       | JN      | 08-MAR-99 28  | 353.2     |        |
|            |                |               | PB (D)    | 0.004 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|            |                |               | PH        | 7.6   | pH Units  | DC      | 08-FEB-99     | 150.1     |        |
|            |                |               | SE (D)    | 0.011 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|            |                |               | SO4=      | 1731. | ppm       | JN      | 24-FEB-99 28  | 9036      |        |
|            |                |               | TDS       | 4291. | ppm       | AKH     | 08-FEB-99 7   | 160.1     |        |
|            |                |               | TSS       | 1107. | ppm       | AKH     | 08-FEB-99     | 160.2     |        |
|            |                |               | ZN (D)    | 0.037 | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
| L990218-12 | 04-FEB-99      | EPRI-9902-179 | AS (D)    | 1.3   | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|            |                |               | CA        | 260.  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|            |                |               | CD (D)    | <.005 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|            |                |               | CL-       | 717.  | ppm       | JN      | 29-MAR-99 28  | 325.2     |        |
|            |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     | 310.1     |        |
|            |                |               | COND.     | 5640. | umhos     | AKH     | 08-FEB-99 28  | 120.1     |        |
|            |                |               | CR (D)    | <.01  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|            |                |               | CU (D)    | <.025 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|            |                |               | F-        | 2.0   | ppm       | BD      | 09-FEB-99 28  | 340.2     |        |
|            |                |               | FE (D)    | <0.1  | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|            |                |               | HCO3      | 736.  | ppm CaCO3 | DC      | 08-FEB-99 14  | 310.1     |        |
|            |                |               | K         | 35.   | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|            |                |               | MG        | 67.   | ppm       | MK      | 12-FEB-99 180 | 6010      |        |
|            |                |               | NA        | 1073. | ppm       | AKH     | 23-FEB-99 180 | 273.1     |        |
|            |                |               | NO2/NO3   | 0.39  | ppm       | JN      | 08-MAR-99 28  | 353.2     |        |
|            |                |               | PB (D)    | 0.004 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|            |                |               | PH        | 8.2   | pH Units  | DC      | 08-FEB-99     | 150.1     |        |
|            |                |               | SE (D)    | 0.013 | ppm       | KPB     | 23-FEB-99 180 | 6020M     |        |
|            |                |               | SO4=      | 1751. | ppm       | JN      | 24-FEB-99 28  | 9036      |        |
|            |                |               | TDS       | 4173. | ppm       | AKH     | 08-FEB-99 7   | 160.1     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990218

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990218-12 | 04-FEB-99      | EPRI-9902-179 | TSS       | 5485. | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|            |                |               | ZN(D)     | 0.032 | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-13 | 04-FEB-99      | EPRI-9902-120 | AS(D)     | 55.   | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | CA        | 509.  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | CD(D)     | 1.7   | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | CL-       | 424.  | ppm       | JN      | 29-MAR-99     | 28        | 325.2  |
|            |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|            |                |               | COND.     | 7040. | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|            |                |               | CR(D)     | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | F-        | 6.2   | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |
|            |                |               | FE(D)     | <0.1  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | HCO3      | 280.  | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|            |                |               | K         | 127.  | ppm       | AKH     | 26-FEB-99     | 180       | 258.1  |
|            |                |               | MG        | 83.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | NA        | 1140. | ppm       | AKH     | 23-FEB-99     | 180       | 273.1  |
|            |                |               | NO2/NO3   | 93.   | ppm       | JN      | 09-MAR-99     | 28        | 353.2  |
|            |                |               | PB(D)     | <.003 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | PH        | 7.1   | pH Units  | DC      | 08-FEB-99     |           | 150.1  |
|            |                |               | SE(D)     | 1.4   | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | SO4=      | 2665. | ppm       | JN      | 24-FEB-99     | 28        | 9036   |
|            |                |               | TDS       | 6023. | ppm       | AKH     | 08-FEB-99     | 7         | 160.1  |
|            |                |               | TSS       | 2356. | ppm       | AKH     | 08-FEB-99     |           | 160.2  |
|            |                |               | ZN(D)     | 5.7   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
| L990218-14 | 04-FEB-99      | EPRI-9902-180 | AS(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | CA        | <1    | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | CD(D)     | <.005 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | CL-       | <1.   | ppm       | JN      | 25-FEB-99     | 28        | 325.2  |
|            |                |               | CO3       | <1    | ppm CaCO3 | DC      | 08-FEB-99     |           | 310.1  |
|            |                |               | COND.     | <10   | umhos     | AKH     | 08-FEB-99     | 28        | 120.1  |
|            |                |               | CR(D)     | <.01  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | CU(D)     | <.025 | ppm       | KPB     | 23-FEB-99     | 180       | 6020M  |
|            |                |               | F-        | <0.1  | ppm       | BD      | 09-FEB-99     | 28        | 340.2  |
|            |                |               | FE(D)     | <0.1  | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | HCO3      | <1    | ppm CaCO3 | DC      | 08-FEB-99     | 14        | 310.1  |
|            |                |               | K         | <5.   | ppm       | MK      | 12-FEB-99     | 180       | 6010   |
|            |                |               | MG        | <1    | ppm       | MK      | 12-FEB-99     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

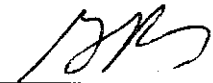

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990218

| LAB NO     | DATE<br>COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS    | ANALYST | DATE<br>ANALYZED | HOLD<br>DAYS | METHOD |
|------------|-------------------|---------------|-----------|-------|----------|---------|------------------|--------------|--------|
| L990218-14 | 04-FEB-99         | EPRI-9902-180 | NA        | <5    | ppm      | AKH     | 23-FEB-99 180    | 273.1        |        |
|            |                   |               | NO2/NO3   | <0.1  | ppm      | JN      | 08-MAR-99 28     | 353.2        |        |
|            |                   |               | PB(D)     | <.003 | ppm      | KPB     | 23-FEB-99 180    | 6020M        |        |
|            |                   |               | PH        | 5.9   | pH Units | DC      | 08-FEB-99        | 150.1        |        |
|            |                   |               | SE(D)     | <.005 | ppm      | KPB     | 23-FEB-99 180    | 6020M        |        |
|            |                   |               | SO4=      | 1.1   | ppm      | JN      | 24-FEB-99 28     | 9036         |        |
|            |                   |               | TDS       | <10   | ppm      | AKH     | 08-FEB-99 7      | 160.1        |        |
|            |                   |               | TSS       | <1.   | ppm      | AKH     | 08-FEB-99        | 160.2        |        |
|            |                   |               | ZN(D)     | 0.020 | ppm      | MK      | 12-FEB-99 180    | 6010         |        |

  
Approved  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990116

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS      | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|------------|---------|---------------|-----------|--------|
| WG990116-1 |                | Matrix Spike       | AS (D)    | 98    | % RECOVERY | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | CD (D)    | 104   | % RECOVERY | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | CL        | 97    | % RECOVERY | JN      | 25-FEB-99     | 325.2     |        |
|            |                |                    | CR (D)    | 98    | % RECOVERY | MK      | 12-FEB-99     | 6010      |        |
|            |                |                    | CU (D)    | 98    | % RECOVERY | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | F-        | 92    | % RECOVERY | BD      | 09-FEB-99     | 340.2     |        |
|            |                |                    | FE (D)    | 127   | % RECOVERY | MK      | 12-FEB-99     | 6010      |        |
|            |                |                    | NO2/NO3   | 99    | % RECOVERY | JN      | 08-MAR-99     | 353.2     |        |
|            |                |                    | PB (D)    | 106   | % RECOVERY | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | SE (D)    | 92    | % RECOVERY | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | SO4=      | 88    | % RECOVERY | JN      | 24-FEB-99     | 9036      |        |
|            |                |                    | ZN (D)    | 94    | % RECOVERY | MK      | 12-FEB-99     | 6010      |        |
| WG990116-2 |                | Prep Blank         | AS (D)    | <.005 | ppm        | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | CA        | <1    | ppm        | MK      | 12-FEB-99     | 6010      |        |
|            |                |                    | CD (D)    | <.005 | ppm        | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | CL-       | <1.   | ppm        | JN      | 25-FEB-99     | 325.2     |        |
|            |                |                    | CO3       | <1    | ppm CaCO3  | DC      | 08-FEB-99     | 310.1     |        |
|            |                |                    | COND.     | <10   | umhos      | AKH     | 08-FEB-99     | 120.1     |        |
|            |                |                    | CR (D)    | <.01  | ppm        | MK      | 12-FEB-99     | 6010      |        |
|            |                |                    | CU (D)    | <.025 | ppm        | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | F-        | <0.1  | ppm        | BD      | 09-FEB-99     | 340.2     |        |
|            |                |                    | FE (D)    | <0.1  | ppm        | MK      | 12-FEB-99     | 6010      |        |
|            |                |                    | HCO3      | <1    | ppm CaCO3  | DC      | 08-FEB-99     | 310.1     |        |
|            |                |                    | K         | <5.   | ppm        | MK      | 12-FEB-99     | 6010      |        |
|            |                |                    | MG        | <1    | ppm        | MK      | 12-FEB-99     | 6010      |        |
|            |                |                    | NA        | <5    | ppm        | AKH     | 23-FEB-99     | 273.1     |        |
|            |                |                    | NO2/NO3   | <0.1  | ppm        | JN      | 08-MAR-99     | 353.2     |        |
|            |                |                    | PB (D)    | <.003 | ppm        | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | PH        | 5.4   | pH Units   | DC      | 08-FEB-99     | 150.1     |        |
|            |                |                    | SE (D)    | <.005 | ppm        | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | SO4=      | <1.   | ppm        | JN      | 24-FEB-99     | 9036      |        |
|            |                |                    | TDS       | <10   | ppm        | AKH     | 08-FEB-99     | 160.1     |        |
|            |                |                    | TSS       | <1.   | ppm        | AKH     | 08-FEB-99     | 160.2     |        |
|            |                |                    | ZN (D)    | <.020 | ppm        | MK      | 12-FEB-99     | 6010      |        |
| WG990116-3 |                | Laboratory Control | AS (D)    | 94    | % RECOVERY | KPB     | 23-FEB-99     | 6020M     |        |
|            |                |                    | CA        | 118   | % RECOVERY | MK      | 12-FEB-99     | 6010      |        |
|            |                |                    | CD (D)    | 94    | % RECOVERY | KPB     | 23-FEB-99     | 6020M     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990116

| LAB NO     | DATE COLLECTED | DESCRIPTION        | PARAMETER | VALUE | UNITS | ANALYST      | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|--------------------|-----------|-------|-------|--------------|---------------|-----------|--------|
| WG990116-3 |                | Laboratory Control | CL-       | 97    | %     | RECOVERY JN  | 25-FEB-99     | 325.2     |        |
|            |                |                    | COND.     | 100   | %     | RECOVERY AKH | 08-FEB-99     | 120.1     |        |
|            |                |                    | CR(D)     | 102   | %     | RECOVERY MK  | 12-FEB-99     | 6010      |        |
|            |                |                    | CU(D)     | 99    | %     | RECOVERY KPB | 23-FEB-99     | 6020M     |        |
|            |                |                    | F-        | 93    | %     | RECOVERY BD  | 09-FEB-99     | 340.2     |        |
|            |                |                    | FE(D)     | 108   | %     | RECOVERY MK  | 12-FEB-99     | 6010      |        |
|            |                |                    | K         | 117   | %     | RECOVERY MK  | 12-FEB-99     | 6010      |        |
|            |                |                    | MG        | 109   | %     | RECOVERY MK  | 12-FEB-99     | 6010      |        |
|            |                |                    | NA        | 107   | %     | RECOVERY AKH | 23-FEB-99     | 273.1     |        |
|            |                |                    | NO2/NO3   | 95    | %     | RECOVERY JN  | 08-MAR-99     | 353.2     |        |
|            |                |                    | PB(D)     | 101   | %     | RECOVERY KPB | 23-FEB-99     | 6020M     |        |
|            |                |                    | PH        | 99    | %     | RECOVERY DC  | 08-FEB-99     | 150.1     |        |
|            |                |                    | SE(D)     | 93    | %     | RECOVERY KPB | 23-FEB-99     | 6020M     |        |
|            |                |                    | SO4=      | 98    | %     | RECOVERY JN  | 24-FEB-99     | 9036      |        |
|            |                |                    | TDS       | 99    | %     | RECOVERY AKH | 08-FEB-99     | 160.1     |        |
|            |                |                    | TSS       | 100.  | %     | RECOVERY AKH | 08-FEB-99     | 160.2     |        |
|            |                |                    | ZN(D)     | 94    | %     | RECOVERY MK  | 12-FEB-99     | 6010      |        |
| WG990116-4 |                | Duplicate          | AS(D)     | <1    | %     | RPD KPB      | 23-FEB-99     | 6020M     |        |
|            |                |                    | CA        | 5.9   | %     | RPD MK       | 12-FEB-99     | 6010      |        |
|            |                |                    | CD(D)     | <1    | %     | RPD KPB      | 23-FEB-99     | 6020M     |        |
|            |                |                    | CL-       | 2.6   | %     | RPD JN       | 25-FEB-99     | 325.2     |        |
|            |                |                    | CO3       | <1    | %     | RPD DC       | 08-FEB-99     | 310.1     |        |
|            |                |                    | COND.     | <1    | %     | RPD AKH      | 08-FEB-99     | 120.1     |        |
|            |                |                    | CR(D)     | <1    | %     | RPD MK       | 12-FEB-99     | 6010      |        |
|            |                |                    | CU(D)     | <1    | %     | RPD KPB      | 23-FEB-99     | 6020M     |        |
|            |                |                    | F-        | <1    | %     | RPD BD       | 09-FEB-99     | 340.2     |        |
|            |                |                    | FE(D)     | <1    | %     | RPD MK       | 12-FEB-99     | 6010      |        |
|            |                |                    | HCO3      | 4.3   | %     | RPD DC       | 08-FEB-99     | 310.1     |        |
|            |                |                    | K         | <1    | %     | RPD MK       | 12-FEB-99     | 6010      |        |
|            |                |                    | MG        | 4.7   | %     | RPD MK       | 12-FEB-99     | 6010      |        |
|            |                |                    | NA        | 2.8   | %     | RPD AKH      | 23-FEB-99     | 273.1     |        |
|            |                |                    | NO2/NO3   | <1    | %     | RPD JN       | 08-MAR-99     | 353.2     |        |
|            |                |                    | PB(D)     | <1    | %     | RPD KPB      | 23-FEB-99     | 6020M     |        |
|            |                |                    | PH        | <1    | %     | RPD DC       | 08-FEB-99     | 150.1     |        |
|            |                |                    | SE(D)     | 6.9   | %     | RPD KPB      | 23-FEB-99     | 6020M     |        |
|            |                |                    | SO4=      | <1    | %     | RPD JN       | 24-FEB-99     | 9036      |        |
|            |                |                    | TDS       | 2.0   | %     | RPD AKH      | 08-FEB-99     | 160.1     |        |
|            |                |                    | TSS       | 3.9   | %     | RPD AKH      | 08-FEB-99     | 160.2     |        |



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG990116

| LAB NO     | DATE COLLECTED | DESCRIPTION                  | PARAMETER | VALUE   | UNITS     | ANALYST | DATE      | HOLD        |
|------------|----------------|------------------------------|-----------|---------|-----------|---------|-----------|-------------|
|            |                |                              |           |         |           |         | ANALYZED  | DAYS METHOD |
| WG990116-4 |                | Duplicate                    | ZN(D)     | +/-CRDL | % RPD     | MK      | 12-FEB-99 | 6010        |
| WG990116-5 |                | Practical Quantitation Limit | AS(D)     | 0.005   | ppm       |         |           | 6020M       |
|            |                |                              | CA        | 1.      | ppm       |         |           | 6010        |
|            |                |                              | CD(D)     | 0.005   | ppm       |         |           | 6020M       |
|            |                |                              | CL-       | 1.0     | ppm       |         |           | 325.2       |
|            |                |                              | CO3       | 1.      | ppm CaCO3 |         |           | 310.1       |
|            |                |                              | COND.     | 10.     | umhos     |         |           | 120.1       |
|            |                |                              | CR(D)     | 0.01    | ppm       |         |           | 6010        |
|            |                |                              | CU(D)     | 0.025   | ppm       |         |           | 6020M       |
|            |                |                              | F-        | 0.1     | ppm       |         |           | 340.2       |
|            |                |                              | FE(D)     | 0.1     | ppm       |         |           | 6010        |
|            |                |                              | HCO3      | 1.0     | ppm CaCO3 |         |           | 310.1       |
|            |                |                              | K         | 5.      | ppm       |         |           | 6010        |
|            |                |                              | MG        | 1.      | ppm       |         |           | 6010        |
|            |                |                              | NA        | 5.      | ppm       |         |           | 273.1       |
|            |                |                              | NO2/NO3   | 0.1     | ppm       |         |           | 353.2       |
|            |                |                              | PB(D)     | 0.003   | ppm       |         |           | 6020M       |
|            |                |                              | SE(D)     | 0.005   | ppm       |         |           | 6020M       |
|            |                |                              | SO4=      | 1.0     | ppm       |         |           | 9036        |
|            |                |                              | TDS       | 10.     | ppm       |         |           | 160.1       |
|            |                |                              | TSS       | 1.0     | ppm       |         |           | 160.2       |
|            |                |                              | ZN(D)     | 0.020   | ppm       |         |           | 6010        |

Approved

Reviewer

**הגות וספרות**

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

| PROJ. NO. |      | PROJECT NAME      |      | NO.<br>OF<br>CON-<br>TAINERS | ANALYSIS PARAMETERS |   |                                |            |                                  |  |      |     |  |  |  |  | REMARKS |  |  |  |  |  |
|-----------|------|-------------------|------|------------------------------|---------------------|---|--------------------------------|------------|----------------------------------|--|------|-----|--|--|--|--|---------|--|--|--|--|--|
| 0931-     |      | ASARCO EIPASO, TX |      |                              | Commons UF/RAW      | Nutrients UF/H <sub>2</sub> SO <sub>4</sub> | Diss. Metal F/HNO <sub>3</sub> | CN UF/NaOH | Total Metals UF/HNO <sub>3</sub> | Total Recoverable Metals UF/HNO <sub>3</sub> | BTEX | TPH |  |  |  |  |         |  |  |  |  |  |
| DATE      | TIME | COMP.             | GRAB | SAMPLE NUMBER                |                     |   |                                |            |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
| 2-3-99    | 1035 |                   |      | EPRI-9902-115                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1350 |                   |      | EPRI-9902-100                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1420 |                   |      | EPRI-9902-101                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1455 |                   |      | EPRI-9902-102                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1520 |                   |      | EPRI-9902-103                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1525 |                   |      | EPRI-9902-177                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1620 |                   |      | EPRI-9902-178                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
| 2-4-99    | 855  |                   |      | EPRI-9902-116                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1110 |                   |      | EPRI-9902-108                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1355 |                   |      | EPRI-9902-114                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1425 |                   |      | EPRI-9902-123                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1430 |                   |      | EPRI-9902-179                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
|           | 1520 |                   |      | EPRI-9902-120                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |
| 2-4-99    | 1545 |                   |      | EPRI-9902-180                | 3                   | X   | X                              | X          |                                  |  |      |     |  |  |  |  |         |  |  |  |  |  |

|   |                             |   |                                |  |   |
|---|-----------------------------|---|--------------------------------|--|---|
| Relinquished (Signature)<br><i>Douglas M. Solor</i> | Date/Time<br>2-4-99<br>1600 | Received by: (Signature)                                      | Lab<br>TSC - SATT LAKE C. type | P.O. #   | Shipped via: Bus, <del>Fed Ex</del> , UPS<br>Other<br>Air Bill #                      |
| Relinquished (Signature)                            | Date/Time                   | Received by: (Signature)                                      | Remarks                        |  |   |
| Relinquished (Signature)                            | Date/Time                   | Received for Laboratory by: (Signature)<br><i>(Signature)</i> | Date/Time<br>2.5.99 10:30      | Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits<br><input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter<br><input type="checkbox"/> Other | Split Samples:<br><input type="checkbox"/> Accepted <input type="checkbox"/> Declined |

HFORM-1-4/95      Return results & electronic copy to:      Signature

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990255

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L990255-1 | 08-FEB-99      | EPRI-9902-106 | AS (D)    | 1.7    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CA        | 383.   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CD (D)    | <.005  | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CL-       | 307.   | ppm       | JN      | 01-MAR-99     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 19-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 5070.  | umhos     | BD      | 16-FEB-99     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CU (D)    | <.025  | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | F-        | 2.0    | ppm       | BD      | 17-FEB-99     | 28        | 340.2  |
|           |                |               | FE (D)    | .29    | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 312.   | ppm CaCO3 | DC      | 19-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 60.    | ppm       | BD      | 11-MAR-99     | 180       | 258.1  |
|           |                |               | MG        | 98.    | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 670.   | ppm       | BD      | 23-MAR-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 18.    | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB (D)    | .003   | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | PH        | 7.6    | pH        | DC      | 19-FEB-99     |           | 150.1  |
|           |                |               | SE (D)    | .30    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | SO4=      | 1537.  | ppm       | JN      | 22-MAR-99     | 28        | 9036   |
|           |                |               | TDS       | 4178.  | ppm       | BD      | 12-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 6.8    | ppm       | DC      | 12-FEB-99     |           | 160.2  |
|           |                |               | ZN (D)    | .031   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
| L990255-2 | 08-FEB-99      | EPRI-9902-105 | AS (D)    | 36.    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CA        | 354.   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CD (D)    | .74    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CL-       | 680.   | ppm       | JN      | 01-MAR-99     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 19-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 11200. | umhos     | BD      | 16-FEB-99     | 28        | 120.1  |
|           |                |               | CR (D)    | <.010  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CU (D)    | <.025  | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | F-        | 1.6    | ppm       | BD      | 17-FEB-99     | 28        | 340.2  |
|           |                |               | FE (D)    | <.10   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 323.   | ppm CaCO3 | DC      | 19-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 90.    | ppm       | BD      | 11-MAR-99     | 180       | 258.1  |
|           |                |               | MG        | 65.    | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 2040.  | ppm       | BD      | 23-MAR-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 82.    | ppm       | JN      | 09-MAR-99     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003  | ppm       | KB      | 04-MAR-99     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990255

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990255-2 | 08-FEB-99      | EPRI-9902-105 | PH        | 7.6   | pH        | DC      | 19-FEB-99     | 150.1     |        |
|           |                |               | SE(D)     | 5.1   | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|           |                |               | SO4=      | 4565. | ppm       | JN      | 22-MAR-99 28  | 9036      |        |
|           |                |               | TDS       | 9447. | ppm       | BD      | 12-FEB-99 7   | 160.1     |        |
|           |                |               | TSS       | 12.   | ppm       | DC      | 12-FEB-99     | 160.2     |        |
|           |                |               | ZN(D)     | .10   | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
| L990255-3 | 08-FEB-99      | EPRI-9902-107 | AS(D)     | .025  | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|           |                |               | CA        | 166.  | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|           |                |               | CD(D)     | .015  | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|           |                |               | CL-       | 367.  | ppm       | JN      | 01-MAR-99 28  | 325.2     |        |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 19-FEB-99     | 310.1     |        |
|           |                |               | COND.     | 3620. | umhos     | BD      | 16-FEB-99 28  | 120.1     |        |
|           |                |               | CR(D)     | <.010 | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 04-MAR-99 180 | 6020.     |        |
|           |                |               | F-        | .88   | ppm       | BD      | 17-FEB-99 28  | 340.2     |        |
|           |                |               | FE(D)     | <.10  | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|           |                |               | HCO3      | 220.  | ppm CaCO3 | DC      | 19-FEB-99 14  | 310.1     |        |
|           |                |               | K         | 13.   | ppm       | BD      | 11-MAR-99 180 | 258.1     |        |
|           |                |               | MG        | 59.   | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|           |                |               | NA        | 520.  | ppm       | BD      | 23-MAR-99 180 | 273.1     |        |
|           |                |               | NO2/NO3   | 18.   | ppm       | JN      | 08-MAR-99 28  | 353.2     |        |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|           |                |               | PH        | 7.8   | pH        | DC      | 19-FEB-99     | 150.1     |        |
|           |                |               | SE(D)     | .12   | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|           |                |               | SO4=      | 958.  | ppm       | JN      | 22-MAR-99 28  | 9036      |        |
|           |                |               | TDS       | 2579. | ppm       | BD      | 12-FEB-99 7   | 160.1     |        |
|           |                |               | TSS       | 94.   | ppm       | DC      | 12-FEB-99     | 160.2     |        |
|           |                |               | ZN(D)     | .048  | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
| L990255-4 | 08-FEB-99      | EPRI-9902-181 | AS(D)     | .028  | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|           |                |               | CA        | 161.  | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|           |                |               | CD(D)     | .014  | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|           |                |               | CL-       | 372.  | ppm       | JN      | 01-MAR-99 28  | 325.2     |        |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 19-FEB-99     | 310.1     |        |
|           |                |               | COND.     | 3600. | umhos     | BD      | 16-FEB-99 28  | 120.1     |        |
|           |                |               | CR(D)     | <.010 | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|           |                |               | F-        | .87   | ppm       | BD      | 17-FEB-99 28  | 340.2     |        |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990255

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990255-4 | 08-FEB-99      | EPRI-9902-181 | FE(D)     | <.10  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 220.  | ppm CaCO3 | DC      | 19-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 13.   | ppm       | BD      | 11-MAR-99     | 180       | 258.1  |
|           |                |               | MG        | 58.   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 520.  | ppm       | BD      | 23-MAR-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 17.   | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | PH        | 8.0   | pH        | DC      | 19-FEB-99     |           | 150.1  |
|           |                |               | SE(D)     | .12   | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | SO4=      | 967.  | ppm       | JN      | 22-MAR-99     | 28        | 9036   |
|           |                |               | TDS       | 2593. | ppm       | BD      | 12-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 117.  | ppm       | DC      | 12-FEB-99     |           | 160.2  |
|           |                |               | ZN(D)     | .060  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
| L990255-5 | 08-FEB-99      | EP82-9902-182 | AS(D)     | <.005 | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CA        | <1.0  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CD(D)     | <.005 | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CL-       | <1.0  | ppm       | JN      | 01-MAR-99     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 19-FEB-99     |           | 310.1  |
|           |                |               | COND.     | <5.0  | umbos     | BD      | 16-FEB-99     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010 | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CU(D)     | <.025 | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | F-        | <.050 | ppm       | BD      | 17-FEB-99     | 28        | 340.2  |
|           |                |               | FE(D)     | <.10  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | <1.0  | ppm CaCO3 | DC      | 19-FEB-99     | 14        | 310.1  |
|           |                |               | K         | <5.0  | ppm       | BD      | 11-MAR-99     | 180       | 258.1  |
|           |                |               | MG        | <1.0  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | NA        | <5.0  | ppm       | BD      | 23-MAR-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | <.050 | ppm       | JN      | 08-MAR-99     | 28        | 353.2  |
|           |                |               | PB(D)     | <.003 | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | PH        | 6.0   | pH        | DC      | 19-FEB-99     |           | 150.1  |
|           |                |               | SE(D)     | <.005 | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | SO4=      | <2.0  | ppm       | JN      | 22-MAR-99     | 28        | 9036   |
|           |                |               | TDS       | <10.  | ppm       | BD      | 12-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | <1.0  | ppm       | DC      | 12-FEB-99     |           | 160.2  |
|           |                |               | ZN(D)     | <.020 | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
| L990255-6 | 09-FEB-99      | EPRI-9902-118 | AS(D)     | .12   | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CA        | 584.  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990255

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990255-6 | 09-FEB-99      | EPRI-9902-118 | CD (D)    | .078  | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CL-       | 1671. | ppm       | JN      | 01-MAR-99     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 19-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 9060. | umhos     | BD      | 16-FEB-99     | 28        | 120.1  |
|           |                |               | CR (D)    | .017  | ppm       | MK      | 01-MAR-99     | 180       | 6010   |
|           |                |               | CU (D)    | .094  | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | F-        | 1.4   | ppm       | BD      | 17-FEB-99     | 28        | 340.2  |
|           |                |               | FE (D)    | 3.2   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 189.  | ppm CaCO3 | DC      | 19-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 45.   | ppm       | BD      | 11-MAR-99     | 180       | 258.1  |
|           |                |               | MG        | 366.  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 880.  | ppm       | BD      | 23-MAR-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 144.  | ppm       | JN      | 09-MAR-99     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | PH        | 7.4   | pH        | DC      | 19-FEB-99     |           | 150.1  |
|           |                |               | SE (D)    | .23   | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | SO4=      | 1848. | ppm       | JN      | 22-MAR-99     | 28        | 9036   |
|           |                |               | TDS       | 6783. | ppm       | BD      | 12-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 24.   | ppm       | DC      | 12-FEB-99     |           | 160.2  |
|           |                |               | ZN (D)    | 1.0   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
| L990255-7 | 09-FEB-99      | EPRI-9902-183 | AS (D)    | .11   | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CA        | 561.  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CD (D)    | .075  | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CL-       | 1641. | ppm       | JN      | 01-MAR-99     | 28        | 325.2  |
|           |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 19-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 9140. | umhos     | BD      | 16-FEB-99     | 28        | 120.1  |
|           |                |               | CR (D)    | .016  | ppm       | MK      | 01-MAR-99     | 180       | 6010   |
|           |                |               | CU (D)    | .077  | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | F-        | 1.3   | ppm       | BD      | 17-FEB-99     | 28        | 340.2  |
|           |                |               | FE (D)    | 2.6   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 184.  | ppm CaCO3 | DC      | 19-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 45.   | ppm       | BD      | 11-MAR-99     | 180       | 258.1  |
|           |                |               | MG        | 363.  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 870.  | ppm       | BD      | 23-MAR-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 141.  | ppm       | JN      | 09-MAR-99     | 28        | 353.2  |
|           |                |               | PB (D)    | <.003 | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | PH        | 7.4   | pH        | DC      | 19-FEB-99     |           | 150.1  |
|           |                |               | SE (D)    | .23   | ppm       | KB      | 04-MAR-99     | 180       | 6020   |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990255

| LAB NO    | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE  | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|-----------|----------------|---------------|-----------|--------|-----------|---------|---------------|-----------|--------|
| L990255-7 | 09-FEB-99      | EPRI-9902-183 | SO4=      | 1340.  | ppm       | JN      | 22-MAR-99     | 28        | 9036   |
|           |                |               | TDS       | 7050.  | ppm       | BD      | 12-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 22.    | ppm       | DC      | 12-FEB-99     |           | 160.2  |
|           |                |               | ZN(D)     | 1.0    | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
| L990255-8 | 09-FEB-99      | EPRI-9902-119 | AS(D)     | .23    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CA        | 552.   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CD(D)     | .59    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CL-       | 1342.  | ppm       | JN      | 01-MAR-99     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 19-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 11150. | umhos     | BD      | 16-FEB-99     | 28        | 120.1  |
|           |                |               | CR(D)     | .032   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CU(D)     | .41    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | F-        | 6.9    | ppm       | BD      | 17-FEB-99     | 28        | 340.2  |
|           |                |               | FE(D)     | 1.7    | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 579.   | ppm CaCO3 | DC      | 19-FEB-99     | 14        | 310.1  |
|           |                |               | K         | 26.    | ppm       | BD      | 11-MAR-99     | 180       | 258.1  |
|           |                |               | MG        | 275.   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | NA        | 1730.  | ppm       | BD      | 23-MAR-99     | 180       | 273.1  |
|           |                |               | NO2/NO3   | 112.   | ppm       | JN      | 09-MAR-99     | 28        | 353.2  |
|           |                |               | PB(D)     | .021   | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | PH        | 7.1    | pH        | DC      | 19-FEB-99     |           | 150.1  |
|           |                |               | SE(D)     | .25    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | SO4=      | 3665.  | ppm       | JN      | 22-MAR-99     | 28        | 9036   |
|           |                |               | TDS       | 9559.  | ppm       | BD      | 12-FEB-99     | 7         | 160.1  |
|           |                |               | TSS       | 51.    | ppm       | DC      | 12-FEB-99     |           | 160.2  |
|           |                |               | ZN(D)     | 3.9    | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
| L990255-9 | 09-FEB-99      | EPRI-9902-121 | AS(D)     | 50.    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CA        | 455.   | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CD(D)     | .55    | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | CL-       | 756.   | ppm       | JN      | 01-MAR-99     | 28        | 325.2  |
|           |                |               | CO3       | <1.0   | ppm CaCO3 | DC      | 19-FEB-99     |           | 310.1  |
|           |                |               | COND.     | 10500. | umhos     | BD      | 16-FEB-99     | 28        | 120.1  |
|           |                |               | CR(D)     | <.010  | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | CU(D)     | .066   | ppm       | KB      | 04-MAR-99     | 180       | 6020   |
|           |                |               | F-        | 11.    | ppm       | BD      | 17-FEB-99     | 28        | 340.2  |
|           |                |               | FE(D)     | .36    | ppm       | MK      | 27-FEB-99     | 180       | 6010   |
|           |                |               | HCO3      | 741.   | ppm CaCO3 | DC      | 19-FEB-99     | 14        | 310.1  |

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L990255

| LAB NO     | DATE COLLECTED | DESCRIPTION   | PARAMETER | VALUE | UNITS     | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|------------|----------------|---------------|-----------|-------|-----------|---------|---------------|-----------|--------|
| L990255-9  | 09-FEB-99      | EPRI-9902-121 | K         | 320.  | ppm       | BD      | 11-MAR-99 180 | 258.1     |        |
|            |                |               | MG        | 284.  | ppm       | MK      | 01-MAR-99 180 | 6010      |        |
|            |                |               | NA        | 1410. | ppm       | BD      | 23-MAR-99 180 | 273.1     |        |
|            |                |               | NO2/NO3   | 7.6   | ppm       | JN      | 09-MAR-99 28  | 353.2     |        |
|            |                |               | PB(D)     | .004  | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|            |                |               | PH        | 7.4   | pH        | DC      | 19-FEB-99     | 150.1     |        |
|            |                |               | SE(D)     | .098  | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|            |                |               | SO4=      | 3504. | ppm       | JN      | 22-MAR-99 28  | 9036      |        |
|            |                |               | TDS       | 8843. | ppm       | BD      | 12-FEB-99 7   | 160.1     |        |
|            |                |               | TSS       | 60.   | ppm       | DC      | 12-FEB-99     | 160.2     |        |
|            |                |               | ZN(D)     | 10.   | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
| L990255-10 | 09-FEB-99      | EPRI-9902-139 | AS(D)     | .038  | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|            |                |               | CA        | 278.  | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|            |                |               | CD(D)     | .005  | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|            |                |               | CL-       | 434.  | ppm       | JN      | 01-MAR-99 28  | 325.2     |        |
|            |                |               | CO3       | <1.0  | ppm CaCO3 | DC      | 19-FEB-99     | 310.1     |        |
|            |                |               | COND.     | 6540. | umhos     | BD      | 16-FEB-99 28  | 120.1     |        |
|            |                |               | CR(D)     | <.010 | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|            |                |               | CU(D)     | <.025 | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|            |                |               | F-        | 2.9   | ppm       | BD      | 17-FEB-99 28  | 340.2     |        |
|            |                |               | FE(D)     | <.10  | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|            |                |               | HCO3      | 235.  | ppm CaCO3 | DC      | 19-FEB-99 14  | 310.1     |        |
|            |                |               | K         | 400.  | ppm       | BD      | 11-MAR-99 180 | 258.1     |        |
|            |                |               | MG        | 119.  | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|            |                |               | NA        | 830.  | ppm       | BD      | 23-MAR-99 180 | 273.1     |        |
|            |                |               | NO2/NO3   | 16.   | ppm       | JN      | 08-MAR-99 28  | 353.2     |        |
|            |                |               | PB(D)     | <.003 | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|            |                |               | PH        | 7.7   | pH        | DC      | 19-FEB-99     | 150.1     |        |
|            |                |               | SE(D)     | .93   | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|            |                |               | SO4=      | 2155. | ppm       | JN      | 22-MAR-99 28  | 9036      |        |
|            |                |               | TDS       | 5245. | ppm       | BD      | 12-FEB-99 7   | 160.1     |        |
|            |                |               | TSS       | 10.   | ppm       | DC      | 12-FEB-99     | 160.2     |        |
|            |                |               | ZN(D)     | .067  | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
| L990255-11 | 09-FEB-99      | EPRI-9902-184 | AS(D)     | <.005 | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|            |                |               | CA        | <1.0  | ppm       | MK      | 27-FEB-99 180 | 6010      |        |
|            |                |               | CD(D)     | <.005 | ppm       | KB      | 04-MAR-99 180 | 6020      |        |
|            |                |               | CL-       | <1.0  | ppm       | JN      | 01-MAR-99 28  | 325.2     |        |