

3R - 179

# REPORTS

DATE:

2001

**Certified Mail: #7001 1940 0003 1553 8513**

February 28, 2002

**RECEIVED**

**MAR 04 2002**

Mr. William C. Olson  
New Mexico Oil Conservation Division  
1220 St. Francis Dr.  
Santa Fe, NM 87504

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**RE: 2001 Pit Project Annual Groundwater Report**

Dear Mr. Olson:

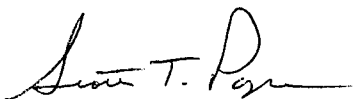
In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 30 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 30 reports (Volumes IA, IB, II and III), reports by land type. Volume IA and IB contain annual reports for sites found on Federal land. Volume II contains Non Federal sites and Volume III contains sites on Navajo land. Of the 30 reports submitted EPFS is requesting closure of three sites located on Navajo lands. Of the three Navajo sites submitted for closure OCD has closed the Charley Pah #4 and the John Charles #8. The Rementa et al #1 has not been closed by either agency. EPFS understands closure of groundwater sites on Navajo land falls under jurisdiction of the Navajo Environmental Protection Agency and original documents have been submitted to them for review. Other Navajo sites are included in the report for your information.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this report and will be submitted by the required deadline of April 1, 2002.

If you have any questions concerning the enclosed reports, please call me at (505) 599-2124.

Sincerely,



Scott T. Pope P.G.  
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7001 1940 0003 1553 8506**  
Mr. Bill Liesse, BLM - w / enclosures (federal sites only), **Certified Mail # 7001 1940 0003 1553 8520**

# **SAN JUAN BASIN PIT CLOSURES**

**San Juan Basin, New Mexico**

**El Paso Field Services  
Pit Project Groundwater Sites  
Annual Report  
Volume II-Non-Federal Sites**

**March 2002**

**Prepared for**

**El Paso Field Services  
Farmington, New Mexico**



**MWH**

MONTGOMERY WATSON HARZA

# EL PASO FIELD SERVICES ANNUAL GROUNDWATER REPORT

## NON-FEDERAL SITES VOLUME II

### TABLE OF CONTENTS

#### Site Map

| METER or LINE ID | SITE NAME              | TOWNSHIP | RANGE | SECTION | UNIT |
|------------------|------------------------|----------|-------|---------|------|
| 71669            | State Gas Com N #1     | 31N      | 12W   | 16      | H    |
| 70194            | Johnston Fed #4        | 31N      | 09W   | 33      | H    |
| 93388            | Horton #1E             | 31N      | 09W   | 28      | H    |
| 72556            | Knight #1              | 30N      | 13W   | 5       | A    |
| 73551            | Coldiron A #1          | 30N      | 11W   | 2       | K    |
| 03906            | GCU Com A #142E        | 29N      | 12W   | 25      | G    |
| 70445            | Standard Oil Com<br>#1 | 29N      | 09W   | 36      | N    |
| LD146            | Lat 3B-39 Line Drip    | 29N      | 09W   | 10      | M    |
| LD087            | K-31 Line Drip         | 25N      | 06W   | 16      | N    |
| 94967            | Lindrith B #24         | 24N      | 03W   | 9       | N    |



**MWH**

MONTGOMERY WATSON HARZA

**EPFS GROUNDWATER SITES  
2002 ANNUAL GROUNDWATER REPORT**

**GCU Com A #142 E  
Meter Code: 03906**

---

**SITE DETAILS**

**LEGAL DESCRIPTION:**    **Twn:** 29N            **Rng:** 12W            **Sec:** 25            **Unit:** G  
**NMOCD Haz Ranking:** 10    **Land Type:** Fee    **Operator:** Amoco Production Company

**PREVIOUS ACTIVITIES**

|                                   |                                      |                                  |
|-----------------------------------|--------------------------------------|----------------------------------|
| <b>Site Assessment:</b> 4/94      | <b>Excavation:</b> 4/94 (20 cy)      | <b>Soil Boring:</b> 10/95        |
| <b>Monitor Well:</b> 2/97         | <b>Geoprobe:</b> 12/96               | <b>Additional MWs:</b> 12/01     |
| <b>Downgradient MWs:</b> 12/01    | <b>Replace MW:</b> NA                | <b>Quarterly Initiated:</b> 8/97 |
| <b>ORC Nutrient Injection:</b> NA | <b>Re-Excavation:</b> 10/96 (882 cy) | <b>PSH Removal Initiated:</b> NA |
| <b>Annual Initiated:</b> 5/98     | <b>Quarterly Resumed:</b> NA         |                                  |

**SUMMARY OF 2002 ACTIVITIES**

**MW-1:** Annual groundwater sampling and water level measurements were performed during 2002.

**Site-Wide Activities:** No other activities were performed at this site during 2002.

**SUMMARY TABLES AND GRAPHS**

- Analytical data is summarized in Table 1 and presented graphically in Figure 2.
- Laboratory reports are presented in Attachment 1.
- Field documentation are presented in Attachment 2.

**SITE MAP**

A site map is attached as Figure 1.

**GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS**

No subsurface activities were performed at this site during 2002.

**DISPOSITION OF GENERATED WASTES**

No wastes were generated at this site during 2002.

**ISOCONCENTRATION MAPS**

No isoconcentration maps were prepared for this site, however, the attached site map presents the analytical data collected during 2002.

**EPFS GROUNDWATER SITES  
2002 ANNUAL GROUNDWATER REPORT**

**GCU Com A #142 E  
Meter Code: 03906**

---

**CONCLUSIONS**

- BTEX concentrations from samples collected at MW-1 continued to decline during 2002. During the May 2002 sampling event, the benzene concentration was measured at 34 µg/l as compared to over 5,000 µg/l during March 1997.

**RECOMMENDATIONS**

- EPFS recommends that MW-1 be sampled during the first quarter of 2002. Based on these sample results, the well will be scheduled for either semi-annual or quarterly groundwater sampling.

# LEGEND

● MW-1 Approximate Monitoring Well Location and Number

— Road

— x — x — Fence Line

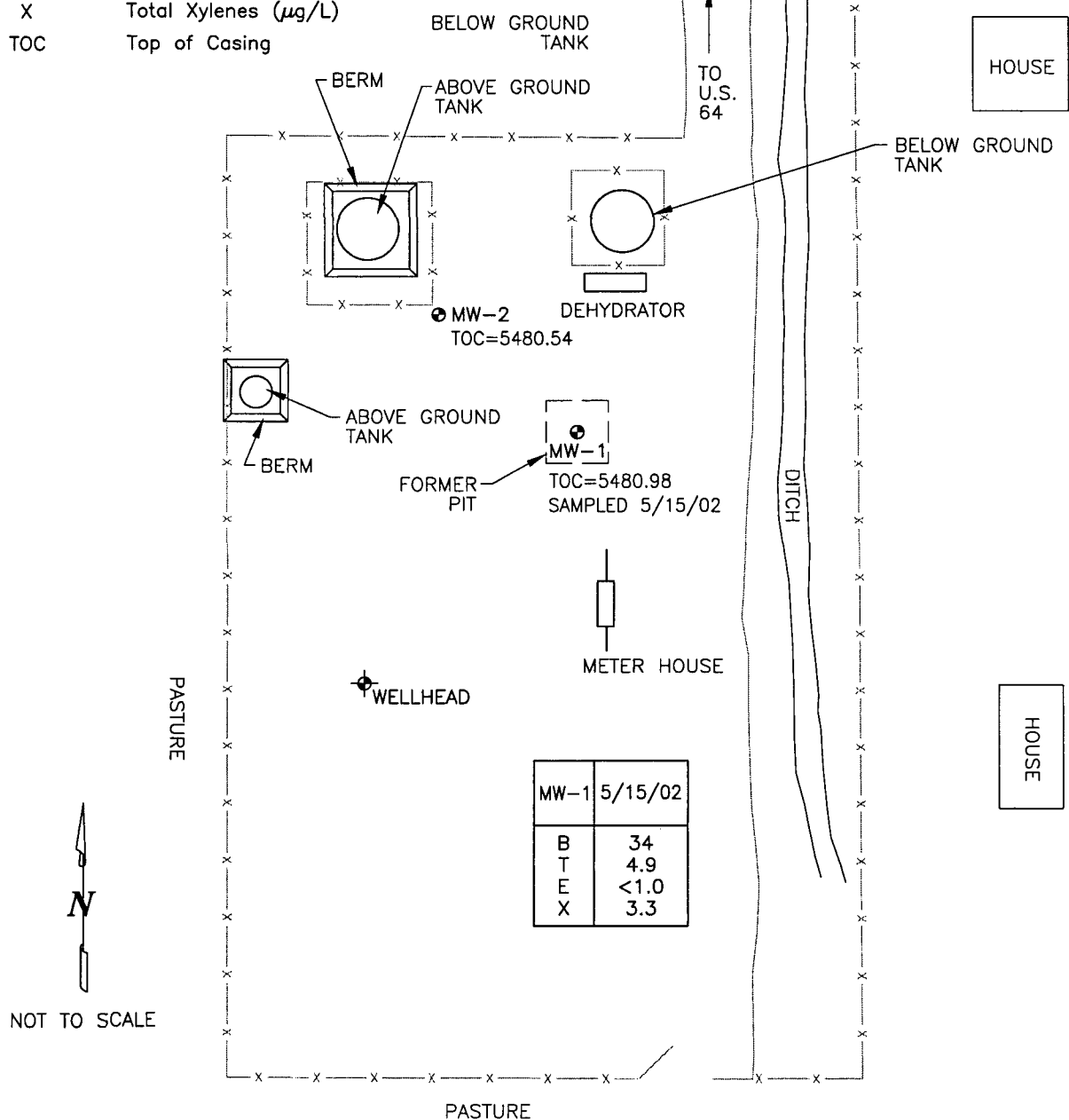
B Benzene (μg/L)

T Toluene (μg/L)

E Ethylbenzene (μg/L)

X Total Xylenes (μg/L)

TOC Top of Casing



GALLEGOS CANYON UNIT A142E, METER 03906  
MAY, 2002

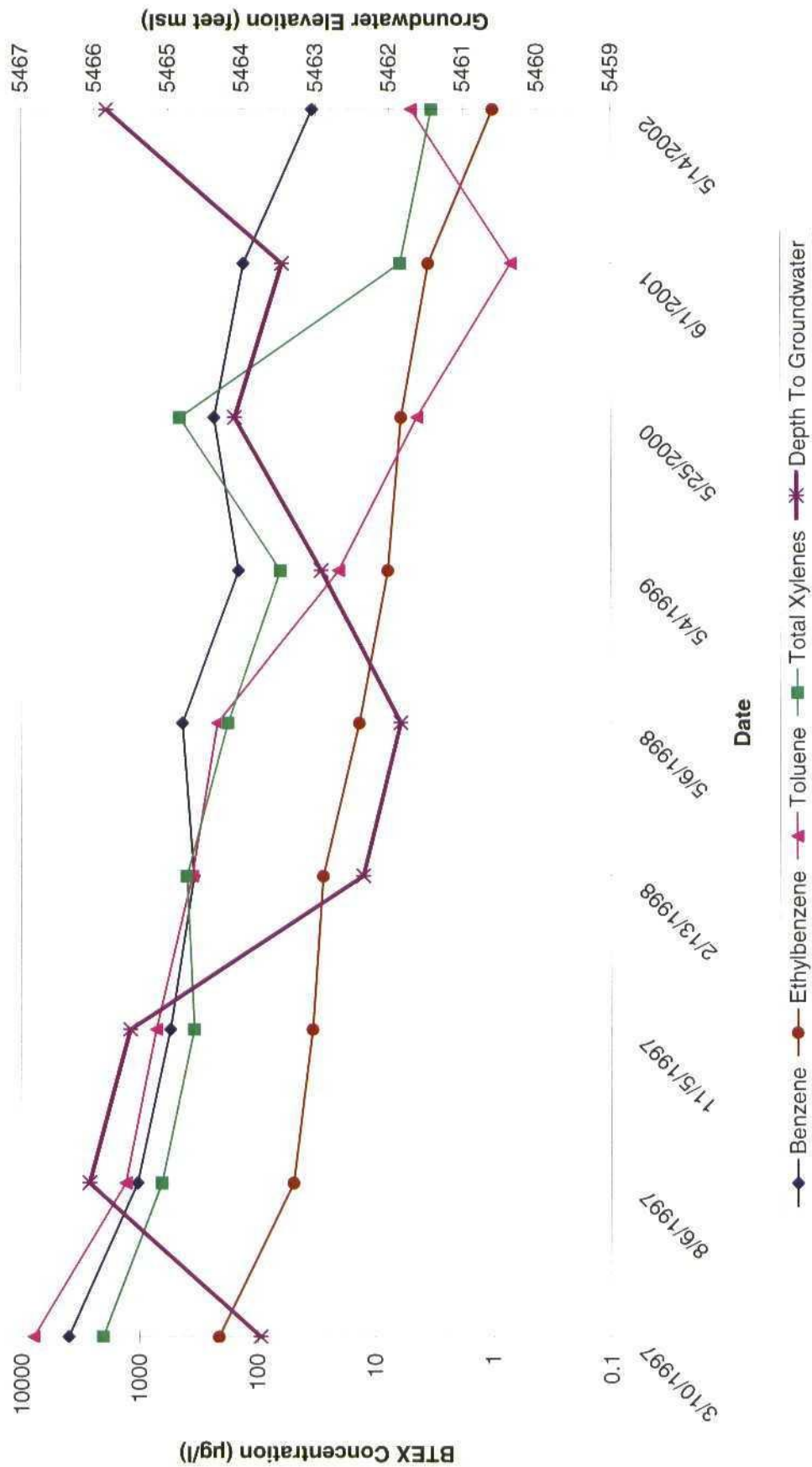
GROUNDWATER SITES  
EL PASO FIELD SERVICES

FIGURE 1

**TABLE 1**  
**SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER**  
**GALLEGOS CANYON UNIT #142E (METER #03906)**  
 (Page 1 of 1)

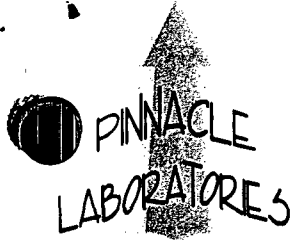
| Sample<br>Identification | Sample Date | MW<br>Identification | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethylbenzene<br>(µg/l) | Total Xylenes<br>(µg/l) |
|--------------------------|-------------|----------------------|-------------------|-------------------|------------------------|-------------------------|
| GAL-0205-MW1             | 14-May-2002 | 1                    | 34                | 4.90              | 1.00                   | 3.30                    |

Figure 2  
 BTEX Concentration and Groundwater Elevation vs. Time  
 Gallegos Canyon Unit #142E (Meter #03906)  
 MW-1



**ATTACHMENT 1**

**LABORATORY REPORTS**



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

Pinnacle Lab ID number      **205131**  
May 23, 2002

AMEC EARTH & ENVIRONMENTAL  
2060 AFTON PLACE  
FARMINGTON, NM 87401

EL PASO FIELD SERVICES  
614 RIELLY STREET  
FARMINGTON, NM 87401

Project Name                      GALLEGOS 142 E  
Project Number                  1517000121

Attention:                      LISA WINN/SCOTT POPE

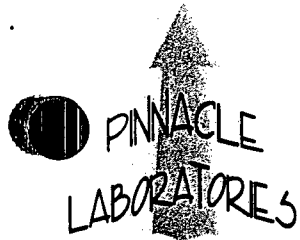
On 05/17/02 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.  
General Manager

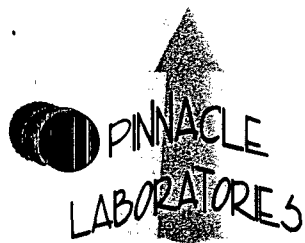
MR: jt

Enclosure



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

|              |                              |               |            |
|--------------|------------------------------|---------------|------------|
| CLIENT       | : AMEC EARTH & ENVIRONMENTAL | PINNACLE ID   | : 205131   |
| PROJECT #    | : 1517000121                 | DATE RECEIVED | : 05/17/02 |
| PROJECT NAME | : GALLEGOS 142 E             | REPORT DATE   | : 05/23/02 |
| PINNACLE     |                              |               | DATE       |
| ID #         | CLIENT DESCRIPTION           | MATRIX        | COLLECTED  |
| 205131 - 01  | GAL-0205-MW1                 | AQUEOUS       | 05/14/02   |



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Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

# GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED  
CLIENT : AMEC EARTH & ENVIRONMENTAL  
PROJECT # : 1517000121  
PROJECT NAME : GALLEGOS 142 E

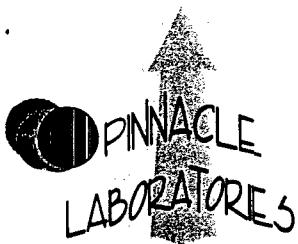
PINNACLE I.D.: 205131

| SAMPLE | DATE     | DATE      | DATE     | DIL.   |
|--------|----------|-----------|----------|--------|
| ID. #  | SAMPLED  | EXTRACTED | ANALYZED | FACTOR |
| 01     | 05/14/02 | NA        | 05/18/02 | 1      |

| PARAMETER     | DET. LIMIT | UNITS | GAL-0205-MW1 |
|---------------|------------|-------|--------------|
| BENZENE       | 0.5        | UG/L  | 34           |
| TOLUENE       | 0.5        | UG/L  | 4.9          |
| ETHYLBENZENE  | 0.5        | UG/L  | 1.0          |
| TOTAL XYLENES | 1.0        | UG/L  | 3.3          |

LOGATE:  
BROMOFLUOROBENZENE (%) 100  
SURROGATE LIMITS ( 80 - 120 )

CHEMIST NOTES:  
N/A



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

|              |                              |                |            |
|--------------|------------------------------|----------------|------------|
| TEST         | : EPA 8021 MODIFIED          | PINNACLE I.D.  | : 205131   |
| BLANK I. D.  | : 051802                     | DATE EXTRACTED | : N/A      |
| CLIENT       | : AMEC EARTH & ENVIRONMENTAL | DATE ANALYZED  | : 05/18/02 |
| PROJECT #    | : 1517000121                 | SAMPLE MATRIX  | : AQUEOUS  |
| PROJECT NAME | : GALLEGOS 142 E             |                |            |

| PARAMETER     | UNITS |      |
|---------------|-------|------|
| BENZENE       | UG/L  | <0.5 |
| TOLUENE       | UG/L  | <0.5 |
| ETHYLBENZENE  | UG/L  | <0.5 |
| TOTAL XYLENES | UG/L  | <1.0 |

SURROGATE:

BROMOFLUOROBENZENE (%)

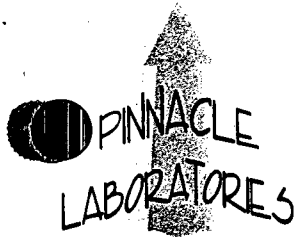
108

SPURIOUS LIMITS:

( 80 - 120 )

COMBUSTION NOTES:

N/A



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Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL  
LCS/LCSD

TEST : EPA 8021 MODIFIED  
BATCH # : 051802  
CLIENT : AMEC EARTH & ENVIRONMENTAL  
PROJECT # : 1517000121  
PROJECT NAME : GALLEGOS 142 E

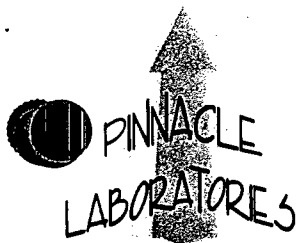
PINNACLE I.D. : 205131  
DATE EXTRACTED : N/A  
DATE ANALYZED : 05/18/02  
SAMPLE MATRIX : AQUEOUS  
UNITS : UG/L

| PARAMETER     | SAMPLE<br>RESULT | CONC<br>SPIKE | SPIKED<br>SAMPLE | %<br>REC | DUP<br>SPIKE | DUP<br>% REC | RPD | REC<br>LIMITS | RPD<br>LIMITS |
|---------------|------------------|---------------|------------------|----------|--------------|--------------|-----|---------------|---------------|
| BENZENE       | <0.5             | 40.0          | 41.6             | 104      | 41.1         | 103          | 1   | ( 80 - 120 )  | 20            |
| TOLUENE       | <0.5             | 40.0          | 41.9             | 105      | 41.5         | 104          | 1   | ( 80 - 120 )  | 20            |
| ETHYLBENZENE  | <0.5             | 40.0          | 42.8             | 107      | 42.5         | 106          | 1   | ( 80 - 120 )  | 20            |
| TOTAL XYLENES | <1.0             | 120           | 132              | 110      | 130          | 108          | 2   | ( 80 - 120 )  | 20            |

CLIENT NOTES:  
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL  
MS/MSD

|              |                              |                |            |
|--------------|------------------------------|----------------|------------|
| TEST         | : EPA 8021 MODIFIED          | PINNACLE I.D.  | : 205131   |
| MSMSD #      | : 205131-01                  | DATE EXTRACTED | : N/A      |
| CLIENT       | : AMEC EARTH & ENVIRONMENTAL | DATE ANALYZED  | : 05/19/02 |
| PROJECT #    | : 1517000121                 | SAMPLE MATRIX  | : AQUEOUS  |
| PROJECT NAME | : GALLEGOS 142 E             | UNITS          | : UG/L     |

| PARAMETER     | SAMPLE<br>RESULT | CONC<br>SPIKE | SPIKED<br>SAMPLE | %<br>REC | DUP<br>SPIKE | DUP<br>% REC | RPD | REC<br>LIMITS | RPD<br>LIMITS |
|---------------|------------------|---------------|------------------|----------|--------------|--------------|-----|---------------|---------------|
| BENZENE       | 33.7             | 40.0          | 69.3             | 89       | 72.1         | 96           | 4   | ( 80 - 120 )  | 20            |
| TOLUENE       | 4.92             | 40.0          | 42.6             | 94       | 44.1         | 98           | 3   | ( 80 - 120 )  | 20            |
| ETHYLBENZENE  | 1.02             | 40.0          | 39.8             | 97       | 41.2         | 100          | 3   | ( 80 - 120 )  | 20            |
| TOTAL XYLENES | 3.33             | 120           | 124              | 101      | 128          | 104          | 3   | ( 80 - 120 )  | 20            |

CHROMIST NOTES:  
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



**ATTACHMENT 2**  
**FIELD DOCUMENTATION**

**amec**

Project No.: 15/2000/21

Task: 2

Date: 5-74-02

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Signature: Ch. A. Mai Date: 5/14/02

Date: 5/14/02

John Jones  
Date 5/20/00

PLEASE FILL THIS FORM IN COMPLETELY.

SHADED AREAS ARE FOR LAB USE ONLY

Pinnacle Laboratories Inc.

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE 5/16/02 PAGE 1 OF 1

PROJECT MANAGER: JSA Winn

COMPANY: AMEC

ADDRESS: 2060 AFTON place

Farmington N.M. 87401

PHONE: (505) 327-7928

FAX: (505) 326-5721

BILL TO: SCOTT POPE

COMPANY: EL PASO Field Services

ADDRESS: GLE Reilly AVE

Farmington N.M. 87401

SAMPLE ID

DATE TIME

GAL-0205-MW 1 5-14-02/1355 H<sub>2</sub>O

Petroleum Hydrocarbons (418.1) TRPH  
(MOD.8015) Diesel/Direct Inject

(M8015) Gas/Purge & Trap

8021 (BTX)/8015 (Gasoline) MTBE

8021 (BTX) ☐ MTBE ☐ TMB ☐ PCE

8021 (TCL)

8021 (EDX)

8021 (HALO)

8021 (CUST)

504.1 EDB ☐ / DBCP ☐

8260 (TCL) Volatile Organics

8260 (Full) Volatile Organics

8260 (CUST) Volatile Organics

8260 (Landfill) Volatile Organics

Pesticides /PCB (608/8081/8082)

Herbicides (615/8151)

Base/Neutral/Acid Compounds GC/MS (625/8270)

Polynuclear Aromatics (610/8310/8270-SIMS)

General Chemistry:

Priority Pollutant Metals (13)

Target Analyte List Metals (23)

RCRA Metals (8)

RCRA Metals by TCLP (Method 1311)

Metals:

NUMBER OF CONTAINERS

PROJECT INFORMATION

PROJ. NO.: 151700001.21

PROJ. NAME: PFS GLV PWS

P.O. NO.

SHIPPED VIA: FedEx

SAMPLE RECEIPT

NO. CONTAINERS

CUSTOMER SEALS

RECEIVED IN LAB

BLANK

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

GALLEGOS 142 E

meter # (03906)

RECEIVED BY

Signature: [Signature] Time: 1530

Printed Name: [Name] Date: 5-16-02

Company: AMEC

Signature: [Signature] Time:

Printed Name: [Name] Date:

Company:

RECEIVED BY (LAB)

Signature: [Signature] Time:

Printed Name: [Name] Date:

Company:

Signature: [Signature] Time:

Printed Name: [Name] Date:

Company: Pinnacle Laboratories Inc.



## EPFS GROUNDWATER PITS 2001 ANNUAL GROUNDWATER REPORT

---

GCU Com A #142E

Meter Code 03906

---

### **SITE DETAILS**

Legals      Twn: 29N      Rng: 12W      Sec: 25      UNIT: G  
NMOCD Haz Ranking 10      Land Type: Fee      Operator: Amoco Production Company

---

### **PREVIOUS ACTIVITIES**

Site Assessment: Apr -94    Excavation Apr-94 (20cy)    Soil Boring: Oct 95    Monitor Well: Feb-97  
Geoprobe: Dec-96    Additional MWs: Dec-01    Downgradient MW's: NA    Replace MW: NA  
PSH Removal Initiated: NA    ORC Nutrient Injection NA    Re-Excavation: Oct-96 (882cy)  
Quarterly Initiated Aug-97    Annual Initiated May-98    Quarterly Resumed: NA

### **2001 ACTIVITY**

Groundwater Monitoring- Annual groundwater monitoring continued during 2001.

Upgradient Well Installation - MW-2 installed December 2001.

### **SUMMARY TABLES AND GRAPHS**

Groundwater analytical data are presented in Table 1 BTEX. Copies of the laboratory data sheets and the associated quality assurance/quality control data are presented as Attachment 1. Included is a BTEX Data graph for MW-1.

### **SITE MAP**

Site Maps with BTEX concentrations and groundwater elevations are attached.

### **GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS**

MW-2 drilling logs and completion to be included in Attachment 2.

### **DISPOSITION OF GENERATED WASTES**

There were no wastes generated at this site in 2001.

## **EPFS GROUNDWATER PITS 2001 ANNUAL GROUNDWATER REPORT**

GCU Com A #142E

Meter Code: 03906

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### **ISOCONCENTRATION MAPS**

Isoconcentration maps were not generated for this site as only two wells have been installed.

### **CONCLUSIONS**

Upgradient Well Installation - MW-2 was installed December 24, 2001, subsequent BTEX results indicate significant contamination upgradient of former EPFS pit location. MW-2 was installed to further evaluate the impact to the site from assumed upgradient sources. Amoco is the Operator at this site and has been notified by OCD July 9, 1998.

EPFS source well MW-1 shows decreasing BTEX concentrations with time. MW-1 has decreased from over 5,000 ppb in March 1997 to 130 ppb in June 2001.

Groundwater flow direction is unknown at this time, as only two monitoring wells have been installed.

### **RECOMMENDATIONS**

- > Notify Operator of 2001 well installation and sampling results.
- > EPFS will continue annual sampling of MW-1 at this site until BTEX constituents fall below NMWQCC Standards. No further action pending Operator investigation of potential source areas.
- > Following OCD approval for closure, MW-1 and MW-2 will be abandoned using OCD approved guidelines.

# LEGEND

● MW-1 Approximate Monitoring Well Location and Number

— Road

-x-x-x- Fence Line

B Benzene ( $\mu\text{g/L}$ )

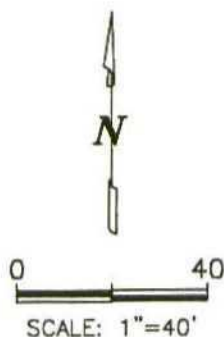
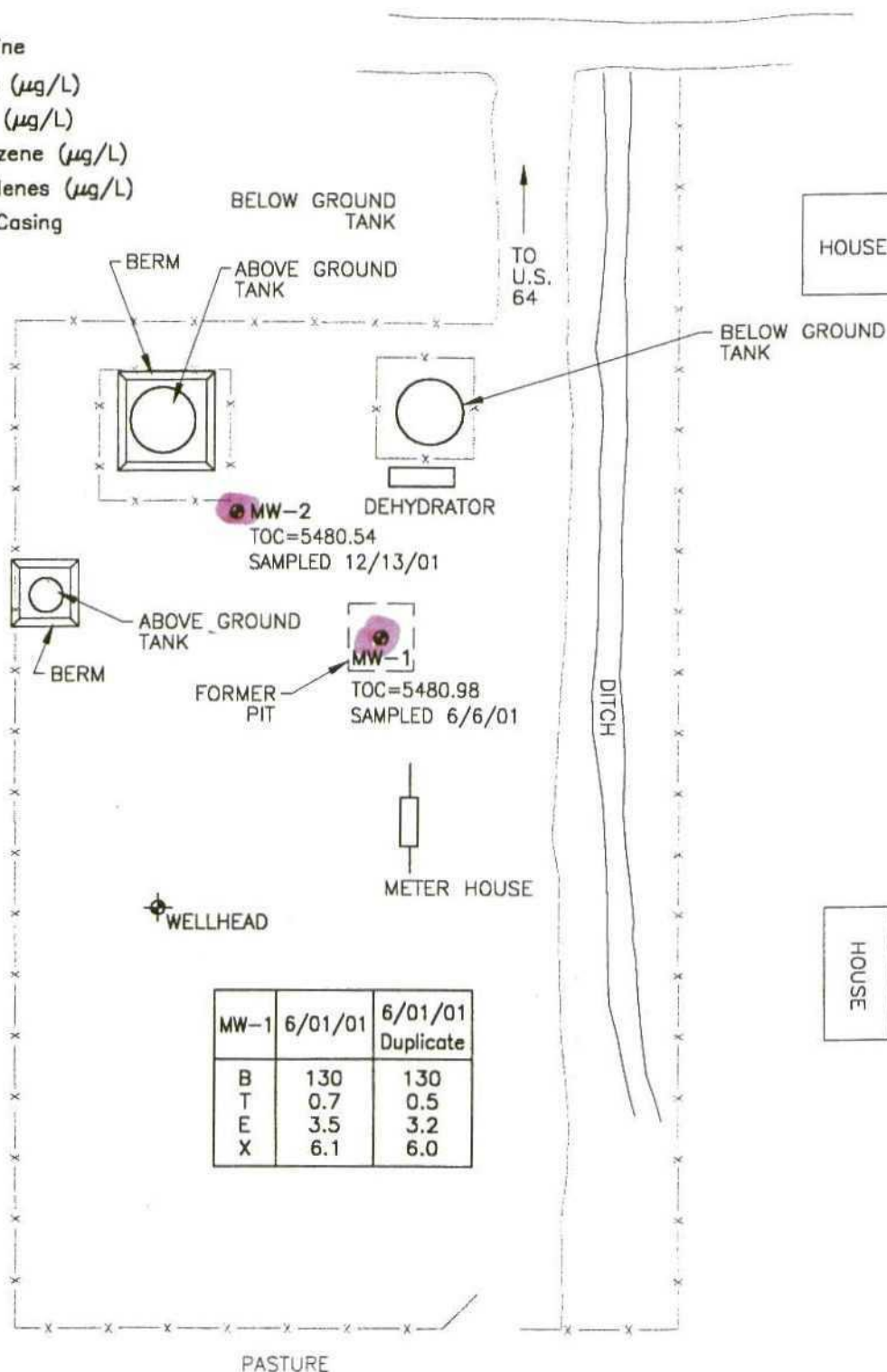
T Toluene ( $\mu\text{g/L}$ )

E Ethylbenzene ( $\mu\text{g/L}$ )

X Total Xylenes ( $\mu\text{g/L}$ )

TOC Top of Casing

| MW-2 | 12/13/01 |
|------|----------|
| B    | 22000    |
| T    | 25000    |
| E    | 500      |
| X    | 4300     |



GALLEGOS CANYON UNIT A142E, METER 03906  
JUNE AND DECEMBER, 2001

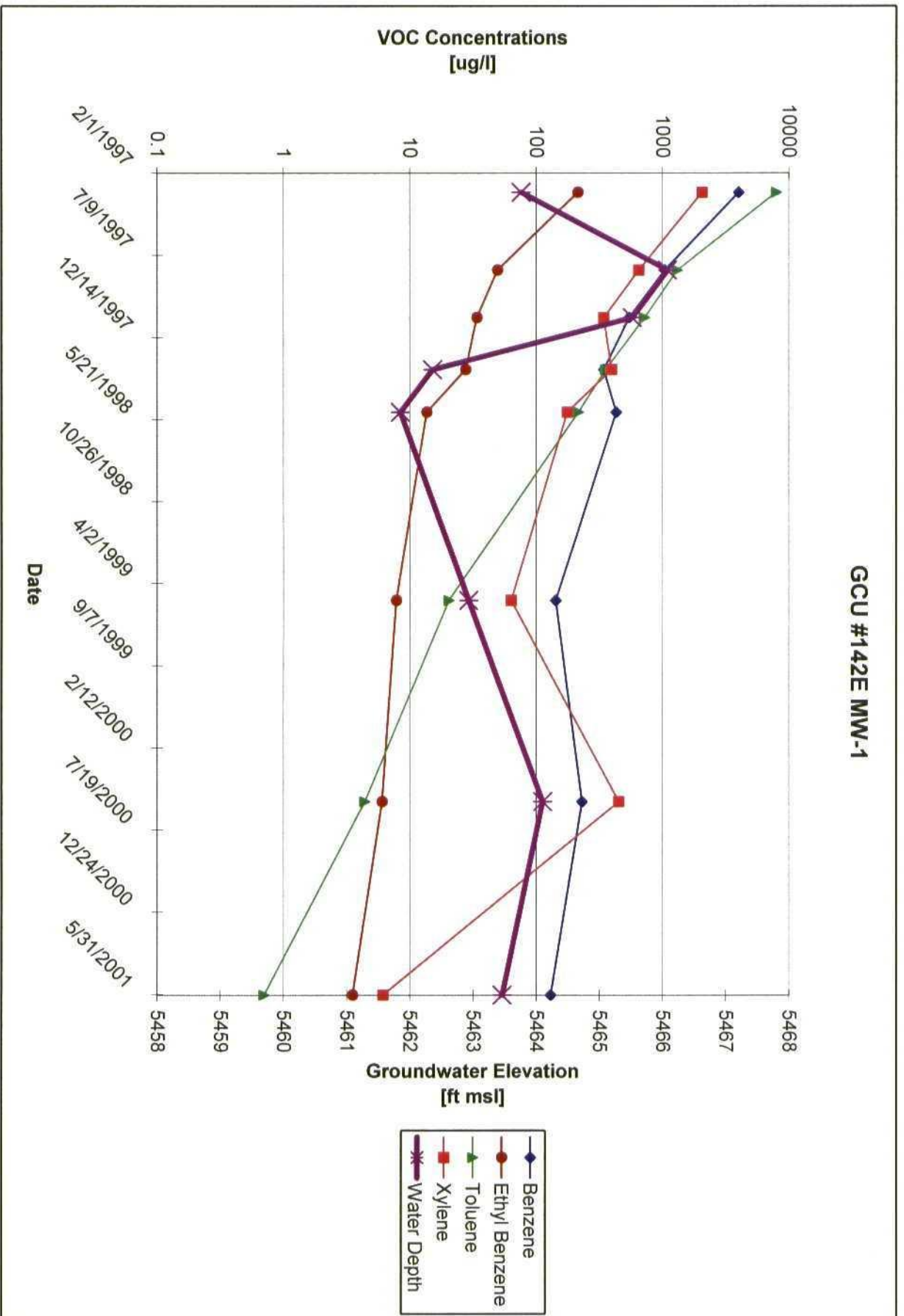
GROUNDWATER SITES  
EL PASO FIELD SERVICES

FIGURE 1

**Table 1 BTEX**  
**GCU 142E**

| Sample # | Meter Line # | Site Name       | Sample Date | MW#   | Benzene<br>(µg/l) | Ethyl Benzene<br>(µg/l) | Toluene<br>(µg/l) | Total Xylenes<br>(µg/l) | Depth to<br>Water (Feet) | Groundwater<br>Elevation (feet) |
|----------|--------------|-----------------|-------------|-------|-------------------|-------------------------|-------------------|-------------------------|--------------------------|---------------------------------|
| GCU0106  | 03906        | GCU Com A #142E | 6/1/2001    | 1     | 130               | 3.5                     | 0.7               | 6.1                     | 17.08                    | 5463.46                         |
| GCU0106  | 03906        | GCU Com A #142E | 6/1/2001    | MW-51 | 130               | 3.2                     | 0.5               | 6.0                     | 17.08                    | 5463.9                          |
| 112059   | 03906        | GCU Com A #142E | 12/13/2001  | MW-2  | 22000             | 500                     | 25000             | 4300                    | 14.52                    | NA                              |

# GCU #142E MW-1



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**ATTACHMENT 1**

**2001 GROUNDWATER ANALYTICAL**

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Page / of /

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PLEASE FILL THIS FORM IN COMPLETELY.

SHADED AREAS ARE FOR LAB USE ONLY.

Pinnacle  
Laboratories

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE 6-1-01 PAGE 1 OF 1

Accession #

PROJECT MANAGER: Lisa Winn

COMPANY: G.E.M.-

ADDRESS: 906 San Juan Blvd.

PHONE: Farmington NM. 87401

FAX: (566)

BILL TO: EPOFS SCOUT POPE

COMPANY: El Paso Field Services

ADDRESS: 14 Kelly Ave.

SAMPLE ID: Farmington N.M. 92499

DATE: 6-1-01 TIME: 1410 Hrs

MATRIX: LAB ID:

Petroleum Hydrocarbons (418.1) TRPH

(MOD.8015) Diesel/Direct Inject

(M8015) Gas/Purge &amp; Trap

8021 (BTEX)/8015 (Gasoline) MTBE

8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE

8021 (TCL)

8021 (EDX)

8021 (HALO)

8021 (CUST)

504.1 EDB ☐ / DBCP ☐

8260 (TCL) Volatile Organics

8260 (Full) Volatile Organics

8260 (CUST) Volatile Organics

8260 (Landfill) Volatile Organics

Pesticides /PCB (608/8081/8082)

Herbicides (615/8151)

Base/Neutral/Acid Compounds GC/MS (625/8270)

Polynuclear Aromatics (610/8310/8270-SIMS)

General Chemistry:

Priority Pollutant Metals (13)

Target Analyte List Metals (23)

RCRA Metals (8)

RCRA Metals by TCLP (Method 1311)

Metals:

NUMBER OF CONTAINERS

## PROJECT INFORMATION

PROJ NO: 6169

PROJ NAME: EPOFS Remediation Project

P.O. NO:

SHIPPED VIA:

## SAMPLE RECEIPT

NO. CONTAINERS:

CUSTODY SEALS: Y/N/NA

RECEIVED INTACT:

BLUE ICE/ICE

## PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☒ 1 WEEK (NORMAL) ☒CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHERMETHANOL PRESERVATION ☐COMMENTS: FIXED FEE ☐

## REINQUISHED BY:

Signature: [Signature] Time: 1500

Printed Name: [Name] Date: 6-6-01

Company: [Company]

See reverse side (Force Majeure)

RECEIVED BY:

Signature: [Signature] Time: [Time]

Printed Name: [Name] Date: [Date]

Company: [Company]

## REINQUISHED BY:

Signature: [Signature] Time: [Time]

Printed Name: [Name] Date: [Date]

Company: [Company]

RECEIVED BY (LAB):

Signature: [Signature] Time: [Time]

Printed Name: [Name] Date: [Date]

Company: [Company]

11/10/98 F

Pinnacle Laboratories, Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107

344-3777 • Fax (505) 344-4413 • E-mail: PIN\_LAB@WORLDNET.ATT.NET

DISTRIBUTION: WH

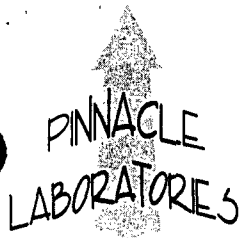
Canary - Originator

## Product Recovery

|                     |               |
|---------------------|---------------|
| Meter/Line #:       | 03906         |
| Location/Line Name: | GALlegos 124E |
| Date:               | 2-28-01       |
| MW:                 | 01            |
| Depth to Product:   |               |
| Depth to Water:     | 29.25         |
| Product Thickness:  |               |
| Volume Removed:     | .10 gal.      |

Comments:

NO water Recovered



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

Pinnacle Lab ID number      **112059**  
December 26, 2001

GOLDEN ENVIRONMENTAL MNGT.  
906 SAN JUAN BLVD.  
FARMINGTON, NM 87401

EL PASO FIELD SERVICES  
614 RIELLY STREET  
FARMINGTON, NM 87401

Project Name                      GALLEGOS CANYON 142  
Project Number                  (NONE)

Attention:                      MARTIN NEE/LYNN BENALLY

On 12/14/01 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.  
General Manager

MR: jt

Enclosure



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

|              |                              |               |            |
|--------------|------------------------------|---------------|------------|
| CLIENT       | : GOLDEN ENVIRONMENTAL MNGT. | PINNACLE ID   | : 112059   |
| PROJECT #    | : (NONE)                     | DATE RECEIVED | : 12/14/01 |
| PROJECT NAME | : GALLEGOS CANYON 142        | REPORT DATE   | : 12/26/01 |
| PINNACLE     |                              |               | DATE       |
| ID #         | CLIENT DESCRIPTION           | MATRIX        | COLLECTED  |
| 112059 - 01  | MW-2 0112131500              | AQUEOUS       | 12/13/01   |
| 112059 - 02  | TRIP BLANK                   | AQUEOUS       | 12/12/01   |



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Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

### GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED  
CLIENT : GOLDEN ENVIRONMENTAL MNGT.  
PROJECT # : (NONE)  
PROJECT NAME : GALLEGOS CANYON 142

PINNACLE I.D.: 112059

| SAMPLE ID. # | CLIENT I.D.     | MATRIX  | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|--------------|-----------------|---------|--------------|----------------|---------------|-------------|
| 01           | MW-2 0112131500 | AQUEOUS | 12/13/01     | NA             | 12/18/01      | 100         |
| 02           | TRIP BLANK      | AQUEOUS | 12/12/01     | NA             | 12/17/01      | 1           |

| PARAMETER            | DET. LIMIT | UNITS | MW-2 0112131500 | TRIP BLANK |
|----------------------|------------|-------|-----------------|------------|
| BENZENE              | 0.5        | UG/L  | 22000 D(1000)   | < 0.5      |
| TOLUENE              | 0.5        | UG/L  | 25000 D(1000)   | < 0.5      |
| ETHYLBENZENE         | 0.5        | UG/L  | 500             | < 0.5      |
| TOTAL XYLENES        | 0.5        | UG/L  | 4300            | < 0.5      |
| METHYL-t-BUTYL ETHER | 2.5        | UG/L  | < 250           | < 2.5      |

SURROGATE:  
BROMOFLUOROBENZENE (%) 112 111  
SURROGATE LIMITS ( 80 - 120 )

#### CHEMIST NOTES:

D(1000) = Sample was reanalyzed at a 1000X dilution on 12/18/01 for these compounds.



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Albuquerque, New Mexico 87107  
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Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

|              |                              |                |            |
|--------------|------------------------------|----------------|------------|
| TEST         | : EPA 8021 MODIFIED          | PINNACLE I.D.  | : 112059   |
| BLANK I. D.  | : 121701B                    | DATE EXTRACTED | : N/A      |
| CLIENT       | : GOLDEN ENVIRONMENTAL MNGT. | DATE ANALYZED  | : 12/17/01 |
| PROJECT #    | : (NONE)                     | SAMPLE MATRIX  | : AQUEOUS  |
| PROJECT NAME | : GALLEGOS CANYON 142        |                |            |

| PARAMETER              | UNITS |      |
|------------------------|-------|------|
| BENZENE                | UG/L  | <0.5 |
| TOLUENE                | UG/L  | <0.5 |
| ETHYLBENZENE           | UG/L  | <0.5 |
| TOTAL XYLENES          | UG/L  | <0.5 |
| METHYL-t-BUTYL ETHER   | UG/L  | <2.5 |
| 1,3,5-TRIMETHYLBENZENE | UG/L  | <0.5 |
| 1,2,4-TRIMETHYLBENZENE | UG/L  | <0.5 |

SURROGATE:  
BROMOFLUOROBENZENE (%) 110  
SURROGATE LIMITS: ( 80 - 120 )  
CHEMIST NOTES:  
N/A



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Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

|              |                              |                |            |
|--------------|------------------------------|----------------|------------|
| TEST         | : EPA 8021 MODIFIED          | PINNACLE I.D.  | : 112059   |
| BLANK I. D.  | : 121801                     | DATE EXTRACTED | : N/A      |
| CLIENT       | : GOLDEN ENVIRONMENTAL MNGT. | DATE ANALYZED  | : 12/18/01 |
| PROJECT #    | : (NONE)                     | SAMPLE MATRIX  | : AQUEOUS  |
| PROJECT NAME | : GALLEGOS CANYON 142        |                |            |

| PARAMETER              | UNITS |      |
|------------------------|-------|------|
| BENZENE                | UG/L  | <0.5 |
| TOLUENE                | UG/L  | <0.5 |
| ETHYLBENZENE           | UG/L  | <0.5 |
| TOTAL XYLENES          | UG/L  | <0.5 |
| METHYL-t-BUTYL ETHER   | UG/L  | <2.5 |
| 1,3,5-TRIMETHYLBENZENE | UG/L  | <0.5 |
| 1,2,4-TRIMETHYLBENZENE | UG/L  | <0.5 |

SURROGATE:  
BROMOFLUOROBENZENE (%) 109  
SURROGATE LIMITS: ( 80 - 120 )  
CHEMIST NOTES:  
N/A

GAS CHROMATOGRAPHY QUALITY CONTROL  
MSMSD

TEST : EPA 8021 MODIFIED  
MSMSD # : 112061-01  
CLIENT : GOLDEN ENVIRONMENTAL MNGT.  
PROJECT # : (NONE)  
PROJECT NAME : GALLEGOS CANYON 142

PINNACLE I.D. : 112059  
DATE EXTRACTED : N/A  
DATE ANALYZED : 12/18/01  
SAMPLE MATRIX : AQUEOUS  
UNITS : UG/L

| PARAMETER            | SAMPLE<br>RESULT | CONC<br>SPIKE | SPIKED<br>SAMPLE | %<br>REC | DUP<br>SPIKE | DUP<br>% REC | RPD | REC<br>LIMITS | RPD<br>LIMITS |
|----------------------|------------------|---------------|------------------|----------|--------------|--------------|-----|---------------|---------------|
| BENZENE              | <0.5             | 20.0          | 22.1             | 111      | 22.1         | 111          | 0   | ( 80 - 120 )  | 20            |
| TOLUENE              | <0.5             | 20.0          | 21.2             | 106      | 21.3         | 107          | 0   | ( 80 - 120 )  | 20            |
| ETHYLBENZENE         | <0.5             | 20.0          | 20.7             | 104      | 20.8         | 104          | 0   | ( 80 - 120 )  | 20            |
| TOTAL XYLENES        | <0.5             | 60.0          | 64.7             | 108      | 64.8         | 108          | 0   | ( 80 - 120 )  | 20            |
| METHYL-t-BUTYL ETHER | <2.5             | 20.0          | 20.6             | 103      | 20.0         | 100          | 3   | ( 70 - 133 )  | 20            |

CHEMIST NOTES:  
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$





Well Number

MW-2

☒ Development  
☒ Purging

## WELL DEVELOPMENT AND PURGING DATA

12/13/01

Serial No. WDJRD-

Page 1 of 1

Project Name

Project Manager Martin Nee

Project No. 6165

Client Company EIPass / MW H

Phase/Task No.

Site Name Amoco Gallinas Canyon Unit COMA

Site Address Sec 25 T29N R12W (G)

Sec 25 T29N R12W (G)

Well 142 E

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal☒ Stabilization of Indicator Parameters☐ Other

## Water Volume Calculation

Initial Depth of Well (feet) 22.75

Initial Depth to Water (feet) 14.52

Height of Water Column in Well (feet) 8.23

Diameter (inches): Well 2" Gravel Pack

## Methods of Development

Pump

Bailey

☐ Centrifugal☒ Bottom Valve☐ Submersible☐ Double Check Valve☐ Peristaltic☐ Stainless-steel Kemmerer☐ Other

| Item            | Water Volume in Well        | Gallons to be Removed |
|-----------------|-----------------------------|-----------------------|
| Well Casing     | 3 Casing Vol = 3.85 gallons | 5                     |
| Gravel Pack     |                             |                       |
| Drilling Fluids |                             |                       |
| Total           |                             | 15 gallons            |

Instruments

☒ pH Meter

Serial No. (if applicable)

☒ DO Monitor☒ Conductivity Meter☒ Temperature Meter☐ Other

Water Disposal

## Water Removal Data

| Time  | Development Method | Removal Rate (gpm) | Initial Depth (feet) | Ending Water Depth (feet) | Water Volume Removed (gallons) |            | Product Volume Removed (gallons) |            | Temperature (°C) | pH   | Conductivity (microhm/cm) | Dissolved Oxygen (mg/L) | Comments          |
|-------|--------------------|--------------------|----------------------|---------------------------|--------------------------------|------------|----------------------------------|------------|------------------|------|---------------------------|-------------------------|-------------------|
|       |                    |                    |                      |                           | Incremental                    | Cumulative | Incremental                      | Cumulative |                  |      |                           |                         |                   |
| 14:00 | HLIS               | X                  |                      |                           | 1                              |            |                                  |            | 12.3             | 7.63 | 730                       | 0.48                    | In Well           |
|       |                    |                    |                      |                           | 2                              |            |                                  |            | 12.4             | 6.88 | 780                       |                         | Brown Muddy       |
|       |                    |                    |                      |                           | 3                              |            |                                  |            | 12.6             | 6.92 | 790                       |                         |                   |
|       |                    |                    |                      |                           | 4                              |            |                                  |            | 12.5             | 6.93 | 790                       |                         | Brown Muddy       |
|       |                    |                    |                      |                           | 5                              |            |                                  |            | 12.4             | 7.01 | 800                       |                         | Same Times        |
|       |                    |                    |                      |                           | 6                              |            |                                  |            | 12.2             | 6.99 | 800                       |                         | Murky             |
|       |                    |                    |                      |                           | 7                              |            |                                  |            | 12.1             | 6.97 | 810                       |                         |                   |
|       |                    |                    |                      |                           | 8                              |            |                                  |            | 12.0             | 6.99 | 810                       |                         |                   |
|       |                    |                    |                      |                           | 9                              |            |                                  |            | 11.9             | 6.98 | 820                       |                         | Water still brown |
|       |                    |                    |                      |                           | 10                             |            |                                  |            | 11.9             | 6.98 | 810                       |                         | Murky but clearer |

Reading After Purging/Samplings

Circle the date and time that the development criteria are met.

15 gallons total poured

Allowed water to settle &amp; sampled Sample # 011231500 2-40m Vials pre-pours with 1

Sec 25 T29N R12W

C:\000Admin\Forms\WELLDEV.doc

---

## **ATTACHMENT 2**

### **2001 MONITOR WELL INSTALLATION RECORDS**

---

# MONITORING WELL INSTALLATION RECORD

## AESE/GEM

906 San Juan Blvd. Ste. D  
Farmington, New Mexico 87401  
(505) 566-9116 FAX (505) 566-9120

Borehole # 1  
Well # MW-2  
Page 1 of 1

Project Name EPFS 5 Monitoring Wells  
Project Number 6169 Cost Code  
Project Location Gallegos Canyon Unit Com A  
142 E meter 03906

Elevation 25500'  
Well Location MW-2 T29N R12W Sec 25, G  
GWL Depth 11.7' BGS  
Installed By ACPI/MSA

On-Site Geologist NBZ  
Personnel On-Site  
Contractors On-Site ACPI K Padilla, T Valdez  
Client Personnel On-Site L Benally

Date/Time Started 12/12/01 1030  
Date/Time Completed 12/12/01 1511

| Depths in Reference to Ground Surface |                          |              |                                     |  |
|---------------------------------------|--------------------------|--------------|-------------------------------------|--|
| Item                                  | Material                 | Depth (feet) |                                     |  |
| Top of Protective Casing              | 6" steel                 | 246          | Top of Protective Casing <u>246</u> |  |
| Bottom of Protective Casing           | 6" steel                 | -154         | Top of Riser <u>221</u>             |  |
| Top of Permanent Borehole Casing      | NA                       |              | Ground Surface <u>0</u>             |  |
| Bottom of Permanent Borehole Casing   | NA                       |              |                                     |  |
| Top of Concrete                       | Quikrete                 | +033         |                                     |  |
| Bottom of Concrete                    | Quikrete                 | -033         |                                     |  |
| Top of Grout                          | 1725 I/F port bent w/    | -033         |                                     |  |
| Bottom of Grout                       | 21510 quicel             | -400         |                                     |  |
| Top of Well Riser                     | 2" PVC                   | 221          |                                     |  |
| Bottom of Well Riser                  | 2" diam. PVC             | -727         |                                     |  |
| Top of Well Screen                    | 2" ID sch 40 .010 slot   | -727         |                                     |  |
| Bottom of Well Screen                 | PVC 15'                  | -2265        | Top of Seal <u>-400</u>             |  |
| Top of Peltonite Seal                 | 3/8 chip bent. Hole plug | -400         |                                     |  |
| Bottom of Peltonite Seal              | Berdid 8                 | -510         | Top of Gravel Pack <u>-510</u>      |  |
| Top of Gravel Pack                    | 10 bags 10-20 Colorado   | -510         | Top of Screen <u>-727</u>           |  |
| Bottom of Gravel Pack                 | silice sand              | -1750        |                                     |  |
| Top of Natural Cave-In                |                          | -1750        |                                     |  |
| Bottom of Natural Cave-In             |                          | -2300        |                                     |  |
| Top of Groundwater                    |                          | -1170        | Bottom of Screen <u>-2265</u>       |  |
| Total Depth of Borehole               |                          | -2300        | Bottom of Borehole <u>-2300</u>     |  |

Comments:

Geologist Signature

# RECORD OF SUBSURFACE EXPLORATION

Golden Environmental Management, Inc  
an AESE Company

906 San Juan Boulevard, Suite D  
Farmington, New Mexico 87401  
(505) 566-9116 FAX (505) 566-9120

Page of

Project Name BPPS 5 MW  
Project Number 6167 Phase  
Project Location Caltecos Canyon Unit com A 142E  
Meter 03609  
Well Logged By NEE  
Personnel On-Site  
Contractors On-Site ACPI K Padilla TJ Valdez  
Client Personnel On-Site LBonetto  
Drilling Method HSA  
Air Monitoring Method stetney

Elevation 5500'  
Borehole Location MW-2 45' NW MW-1  
GWL Depth -7.77 BGS  
Logged By NEE  
Drilled By ACPI  
Date/Time Started 12-12-01 1030  
Date/Time Completed 12-2-01 1511

| Depth<br>(Feet) | Sample<br>Interval | Sample<br>Type &<br>Recovery<br>(inches) | Sample Description<br>Classification System: USCS                 | USCS<br>Symbol | Depth<br>Lithology<br>Change<br>(feet) | Air Monitoring<br>Units: NDU |    |   | Drilling Conditions<br>& Blow Counts |
|-----------------|--------------------|------------------------------------------|-------------------------------------------------------------------|----------------|----------------------------------------|------------------------------|----|---|--------------------------------------|
|                 |                    |                                          |                                                                   |                |                                        | BZ                           | BH | S |                                      |
| 0               |                    |                                          | 0-1 fill w/cobbles                                                |                |                                        | 0                            |    |   |                                      |
| 5               |                    |                                          | 1-15 sand, silt,<br>clay. Mod. yellowish                          |                |                                        | 0                            |    |   | 21                                   |
| 10              |                    |                                          | 90% brown sand is<br>minor, very fine,<br>moderately consolidated |                |                                        | 0                            |    |   | 24                                   |
| 15              |                    |                                          | 90% 3" sand string in<br>ss @ 10' then back<br>to clay, greyish   |                |                                        | 0                            |    |   |                                      |
| 20              |                    |                                          | 20% orange. HC staining<br>on vertical parting<br>surfaces        |                |                                        | 0                            |    |   | 4 ft 1" in 36                        |
| 25              |                    |                                          | 15-23 cobbles and<br>gravel HC odor<br>in ss sample @ 15'         |                |                                        |                              |    |   |                                      |
| 30              |                    |                                          |                                                                   |                |                                        |                              |    |   |                                      |
| 35              |                    |                                          |                                                                   |                |                                        |                              |    |   |                                      |
| 40              |                    |                                          | TD 23' BGS in cobbles                                             |                |                                        |                              |    |   |                                      |

Comments:

Geologist Signature

**Pinnacle Laboratories Inc.**

**CHAIN OF CUSTODY**

PLU Accession #:

112068

DATE: 12/13/01 PAGE: 1 OF 1

PLEASE FILL THIS FORM COMPLETELY. SHADING AREA IS FOR LAB USE ONLY.

|                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>PROJECT MANAGER:</b><br>COMPANY: EIPaso / MW H<br>ADDRESS: 614 Reilly Avenue<br>Farmington, NM 87401<br>PHONE: 505 599 2178<br>FAX: 505 599 2119<br>BILL TO: EIPaso<br>COMPANY:<br>ADDRESS:                             |  | <b>ANALYSIS REQUEST</b><br>Petroleum Hydrocarbons (418.1) TRPH<br>(MOD.8015) Diesel/Direct Inject<br>(M8015) Gas/Purge & Trap<br>8021 (BTEX) 8015 (Gasoline) MTBE<br>8021 (STEX) <input type="checkbox"/> MTBE <input type="checkbox"/> TMB <input type="checkbox"/> PCE<br>8021 (TCL)<br>8021 (EDX)<br>8021 (HALO)<br>8021 (CUST)<br>504.1 EDB <input type="checkbox"/> / DBCP <input type="checkbox"/><br>Tri-P-Blank 8021 BTEX<br>8260 (TCL) Volatile Organics<br>8260 (Full) Volatile Organics<br>8260 (CUST) Volatile Organics<br>8260 (Landfill) Volatile Organics<br>Pesticides /PCB (608/6081/8082)<br>Herbicides (615/8151)<br>Base/Neutral/Acid Compounds GCMS (625/8270)<br>Polynuclear Aromatics (610/8310/8270-SIMS)<br>General Chemistry:<br>Priority Pollutant Metals (13)<br>Target Analyte List Metals (23)<br>RCRA Metals (8)<br>RCRA Metals by TCLP (Method 1311)<br>Metals:<br>NUMBER OF CONTAINERS: |  |
| <b>PROJECT INFORMATION</b><br>PROJ NO:<br>PROJ NAME: Sid Oil Com No 1<br>PO NO:<br>SHIPPED VIA: Hand Delivered<br>SAMPLE RECEIVED:<br>NO. CONTAINERS: 7<br>Q/CHECK BEAKS: Y/N (N)<br>RECEIVED IN CONTAINER:<br>BLUE LABEL: |  | <b>ANALYSIS INFORMATION</b><br>ANALYST: [Signature]<br>DATE: 12/13/01<br>TIME: 1300<br>METHOD: 8015<br>COMMENTS: Pre Preserved w/ HCL<br>Questions call Lynn Berally<br>(505) 599 2178                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| <b>RECEIVED BY:</b><br>Signature: [Signature]<br>Date: 12/25<br>Time: 1725<br>Company: SEM<br>(See Inverse and Forward Labels)                                                                                             |  | <b>RECEIVED BY:</b><br>Signature: [Signature]<br>Date: 12/25<br>Time: 1725<br>Company: SEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |

11/2058 PLU Inc. - Pinnacle Laboratories, Inc. - 2709 D Pitt American Freeway, NE - Albuquerque, New Mexico 87107 - (505) 344-3771 - Fax (505) 344-4113 - E-mail: PIV@PINCORP.COM/NET/ATTN/IEJ  
 DISTRIBUTION: White - PLU Caddy - Originator



Date: 9/11/01  
Client: Golden Environmental Management  
Lab ID: 0301W03833 - 3843  
Project: G169

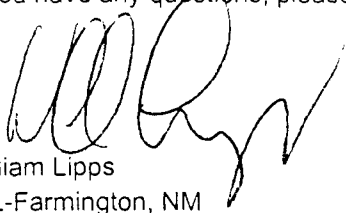
Dear Client:

The samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Sample analyses were obtained within the method specific holding times. Practical Quantitation Limits (PQL's) are based on method requirements, and any dilutions necessary to maintain proper method response without matrix interference.

If you have any questions, please call me at (505) 326-4737.



William Lipps  
IML-Farmington, NM

# Analytical Report

**Client:** Golden Environmental Management  
**Project:** G169  
**IML Set:** 0301W03833

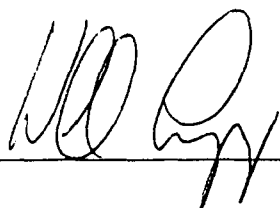
Page 1 of 1

**Date Received:** 09/06/01

**Date Reported:** 09/11/01

| Lab Id     | Sample Id    | Date<br>Sampled | Specific<br>Gravity<br>g/cc |
|------------|--------------|-----------------|-----------------------------|
| 0301W03833 | LIN-0109-MW1 | 09/04/01        | 0.811                       |
| 0301W03834 | CAN-0109-MW1 | 09/04/01        | 0.736                       |
| 0301W03835 | GAL-0109-MW1 | 09/04/01        | 0.833                       |
| 0301W03836 | JFB-0109-MW3 | 09/04/01        | 0.773                       |
| 0301W03837 | 072-0109-MW2 | 09/04/01        | 0.751                       |
| 0301W03838 | MIL-0109-MW1 | 09/04/01        | 0.754                       |

Reviewed By:



## Analytical Report

Client: Golden Environmental Management  
Project: G169  
IML Set: 0301W03839

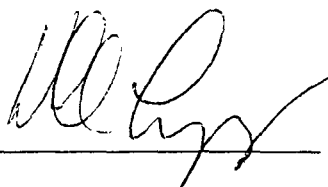
Page 1 of 1

Date Received: 09/06/01

Date Reported: 09/11/01

| Lab Id      | Sample Id    | Date<br>Sampled | Specific<br>Gravity<br>g/cc |
|-------------|--------------|-----------------|-----------------------------|
| 0301W03839  | JOH-0109-MW1 | 09/05/01        | 0.750                       |
| 0301W03839D | JOH-0109-MW1 | 09/05/01        | 0.751                       |
| 0301W03840  | JON-0109-MW1 | 09/05/01        | 0.757                       |
| 0301W03841  | KNI-0109-MW1 | 09/05/01        | 0.790                       |
| 0301W03842  | STA-0109-MW3 | 09/05/01        | 0.741                       |
| 0301W03843  | JEN-0109-MW1 | 09/05/01        | 0.761                       |

Reviewed By:



*Pinnacle Laboratories Inc.*

# CHAIN OF CUSTODY

PLI Accession #:

DATE: 9-6-01 PAGE: 1 OF 2

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| <b>PROJECT MANAGER: LISA WILSON</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | <b>ANALYSIS REQUEST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |
| COMPANY: <u>GOLDEN ENVIRONMENTAL MGMT.</u><br>ADDRESS: <u>706 S. JAMES BLVD. SUITE D</u><br><u>FARMINGTON NM. 87401</u><br>PHONE: <u>(505) 566-9114</u><br>FAX: <u>(505) 566-7120</u><br>BILL TO: <u>SCOTT POPE</u><br>COMPANY: <u>EPASS Field Services</u><br>ADDRESS: <u>604 RAILLY AVE</u><br><u>FARMINGTON NM. 87401</u>                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  | <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           PETROLEUM HYDROCARBONS (418.1) TRPH<br/>           (MOD 8015) Diesel/Direct Inject<br/>           (M8015) Gas/Purge &amp; Trap<br/>           8021 (BTEX)/8015 (Gasoline) MTBE<br/>           8021 (BTEX) □ MTBE □ TMB □ PCE<br/>           8021 (TCL)<br/>           8021 (EDX)<br/>           8021 (HALO)<br/>           8021 (CUST)         </div> <div style="width: 45%;">           504.1 EDB □ / DBCP □<br/>           8260 (TCL) Volatile Organics<br/>           8260 (Full) Volatile Organics<br/>           8260 (CUST) Volatile Organics<br/>           8260 (Landfill) Volatile Organics<br/>           Pesticides / PCB (608/8081/8082)<br/>           Herbicides (615/8151)<br/>           Base/Neutral/Acid Compounds GC/MS (625/8270)<br/>           Polynuclear Aromatics (610/8310/8270-SIMS)<br/>           General Chemistry:         </div> </div>                                                                               |  |  |  |  |  |  |  |  |  |  |  |
| <div style="display: flex;"> <div style="width: 30%;">             SAMPLE ID<br/> <u>JOH-0109-MW 1</u><br/> <u>JOH-0109-MW 1</u><br/> <u>KNL-0109-MW 1</u><br/> <u>STA-0109-MW 3</u><br/> <u>JEN-0109-MW 1</u> </div> <div style="width: 15%;">             DATE<br/> <u>9-5-01</u><br/> <u>9-5-01</u><br/> <u>9-5-01</u><br/> <u>9-5-01</u><br/> <u>9-5-01</u> </div> <div style="width: 15%;">             TIME<br/> <u>0700</u><br/> <u>1000</u><br/> <u>1100</u><br/> <u>1200</u><br/> <u>1300</u> </div> <div style="width: 15%;">             MATRIX<br/> <u>Wg. HC</u><br/> <u>Wg. HC</u><br/> <u>Wg. HC</u><br/> <u>Wg. HC</u><br/> <u>Wg. HC</u> </div> <div style="width: 20%;">             LAB ID.<br/> <br/> <br/> <br/> <br/> </div> </div> |  |  |  | <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           8260 (TCL) Volatile Organics<br/>           8260 (Full) Volatile Organics<br/>           8260 (CUST) Volatile Organics<br/>           8260 (Landfill) Volatile Organics<br/>           Pesticides / PCB (608/8081/8082)<br/>           Herbicides (615/8151)<br/>           Base/Neutral/Acid Compounds GC/MS (625/8270)<br/>           Polynuclear Aromatics (610/8310/8270-SIMS)<br/>           General Chemistry:         </div> <div style="width: 45%;">           504.1 EDB □ / DBCP □<br/>           8260 (TCL) Volatile Organics<br/>           8260 (Full) Volatile Organics<br/>           8260 (CUST) Volatile Organics<br/>           8260 (Landfill) Volatile Organics<br/>           Pesticides / PCB (608/8081/8082)<br/>           Herbicides (615/8151)<br/>           Base/Neutral/Acid Compounds GC/MS (625/8270)<br/>           Polynuclear Aromatics (610/8310/8270-SIMS)<br/>           General Chemistry:         </div> </div> |  |  |  |  |  |  |  |  |  |  |  |
| PROJECT INFORMATION<br>PROJ NO: <u>6169</u><br>PROJ NAME: <u>EPASS Remediation Project</u><br>P.O. NO.:<br>SHIPPED VIA:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  | PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS<br>(RUSH) <input type="checkbox"/> 12hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK<br>CERTIFICATION REQUIRED: <input type="checkbox"/> INM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER<br>METHANOL PRESERVATION <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |
| SAMPLE RECEIPT<br>NO. CONTAINERS<br>CUSTODY SEALS<br>RECEIVED INTACT<br>BLUE ICE/CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  | COMMENTS: FIXED FEE <input type="checkbox"/><br><u>JOHNSTON FIELD # 6 (89232)</u><br><u>JOHNSTON FIELD # 4 (70174)</u><br><u>KATZ # 1 (22556)</u><br><u>STATE GEO. COR. N#1 (21669)</u><br><u>JENNIEPAT # 1 (21816)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |
| RECEIVED BY: (LAB)<br>Signature: _____<br>Printed Name: _____<br>Date: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  | RECEIVED BY:<br>Signature: <u>[Signature]</u><br>Printed Name: <u>John H. H. H.</u><br>Date: <u>9/5/01</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |  |  |
| RELINQUISHED BY:<br>Signature: _____<br>Printed Name: _____<br>Date: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | RELINQUISHED BY:<br>Signature: <u>[Signature]</u><br>Printed Name: <u>John H. H. H.</u><br>Date: <u>9-6-01</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |

PLEASE FILL THIS FORM IN COMPLETELY.

## ANALYSIS REQUEST

COMPANY: GOLDEN Environmental Mgmt.  
ADDRESS: 126 San Juan Blvd. Suite D  
Farmington NM. 87410  
PHONE: (505) 566-9116  
FAX: (505) 566-9120  
BILL TO: SCOTT PAGE  
COMPANY: El Paso Field Services  
ADDRESS: 601 Kully Ave  
Farmington NM. 87410

| SAMPLE ID       | DATE   | TIME | MATRIX            | LAB I.D. |
|-----------------|--------|------|-------------------|----------|
| WIN-0109 - MW 1 | 7-4-01 | 1100 | L <sub>g</sub> HC |          |
| CAN-0109 - MW 1 | 7-4-01 | 1300 | L <sub>g</sub> HC |          |
| BAL-0109 - MW 1 | 7-4-01 | 1400 | L <sub>g</sub> HC |          |
| JFB 009 - MW 3  | 7-4-01 | 1500 | L <sub>g</sub> HC |          |
| DD-0109 - MW 2  | 7-4-01 | 1600 | L <sub>g</sub> HC |          |
| MIL-0109 - MW 1 | 7-4-01 | 1700 | L <sub>g</sub> HC |          |

[illegible]

PLI Accession #:

# CHAIN OF CUSTODY

DATE: 1-6-01 PAGE: 1 OF 1

## NOTES ON CONTRIBUTORS

PROJ NO: 6169  
PROJ NAME: TYPE 3 REPAIRS  
P.O. NO:

**SAMPLE RECEIPT**

|                 |        |
|-----------------|--------|
| NO. CONTAINERS  |        |
| CUSTODY SEALS   | Y/N/NA |
| RECEIVED INTACT |        |
| BLUE ICE/ICE    |        |

**PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS**

☐ (PUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED: ☐ NM ☐ SOWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE [ ]  
 LINDORF B #241 (94967)  
 CAMPORA MRS A #2 (87610)  
 GALLAGHER C-05 #131E (95-603)  
 JF. Bell #1E (94705)  
 K-J7 LD (LD 072)  
 MILLS FED #1A (94810)

RELINQUISHED BY: 1.

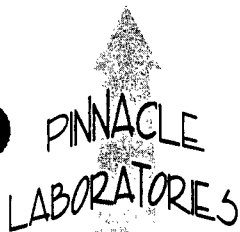
Signature: Chris Hom-y Time: 0911  
 Printed Name: Chris Hom-y Date: 9-6-01  
 Company: \_\_\_\_\_  
 See reverse side (Force Majeure)

|                                 |                     |
|---------------------------------|---------------------|
| RECEIVED BY:                    | 1.                  |
| Signature: <i>John Bonds</i>    | Title: <i>QA</i>    |
| Printed Name: <i>JOHN BONDS</i> | Date: <i>9/6/01</i> |
| Company: <i>TECHNEMENTS</i>     |                     |

*Pinnacle Laboratories Inc.*

11/10/98 PLL Inc.: Pinnacle Laboratories, Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-4413 • Fax (505) 344-3777 • E-mail: PIN\_LAB@WORLDNET.ATT.NET

DISTRIBUTION: White - PLI, Canary - OI



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

Pinnacle Lab ID number      **106036**  
June 13, 2001

GOLDEN ENVIRONMENTAL MNGT.  
906 SAN JUAN BLVD.  
FARMINGTON, NM 87401

EL PASO FIELD SERVICES  
614 RIELLY STREET  
FARMINGTON, NM 87401

Project Name                      EPFS REMEDIATION PROJECT  
Project Number                  6169

Attention:                      LISA WINN/SCOTT POPE

*GCU#142 E*  
*03906*

On 06/07/01 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.  
General Manager

MR: jt

Enclosure



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

|              |                              |               |            |
|--------------|------------------------------|---------------|------------|
| CLIENT       | : GOLDEN ENVIRONMENTAL MNGT. | PINNACLE ID   | : 106036   |
| PROJECT #    | : 6169                       | DATE RECEIVED | : 06/07/01 |
| PROJECT NAME | : EPFS REMEDIATION PROJECT   | REPORT DATE   | : 06/13/01 |
| PINNACLE     |                              |               | DATE       |
| ID #         | CLIENT DESCRIPTION           | MATRIX        | COLLECTED  |
| 106036 - 01  | GCU-0106-MW1                 | AQUEOUS       | 06/01/01   |
| 106036 - 02  | GCU-0106-MW51                | AQUEOUS       | 06/01/01   |



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### GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED  
CLIENT : GOLDEN ENVIRONMENTAL MNGT.  
PROJECT # : 6169  
PROJECT NAME : EPFS REMEDIATION PROJECT

PINNACLE I.D.: 106036

| SAMPLE |               |         | DATE     | DATE      | DATE     | DIL.   |
|--------|---------------|---------|----------|-----------|----------|--------|
| ID. #  | CLIENT I.D.   | MATRIX  | SAMPLED  | EXTRACTED | ANALYZED | FACTOR |
| 01     | GCU-0106-MW1  | AQUEOUS | 06/01/01 | NA        | 06/12/01 | 1      |
| 02     | GCU-0106-MW51 | AQUEOUS | 06/01/01 | NA        | 06/12/01 | 1      |

| PARAMETER     | DET. LIMIT | UNITS | GCU-0106-MW1 | GCU-0106-MW51 |
|---------------|------------|-------|--------------|---------------|
| BENZENE       | 0.5        | UG/L  | 130          | 130           |
| TOLUENE       | 0.5        | UG/L  | 0.7          | 0.5           |
| ETHYLBENZENE  | 0.5        | UG/L  | 3.5          | 3.2           |
| TOTAL XYLENES | 0.5        | UG/L  | 6.1          | 6.0           |

SURROGATE:  
BROMOFLUOROBENZENE (%) 105 108  
SURROGATE LIMITS ( 80 - 120 )

CHEMIST NOTES:  
N/A



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Albuquerque, New Mexico 87107  
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GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

|              |                              |                |            |
|--------------|------------------------------|----------------|------------|
| TEST         | : EPA 8021 MODIFIED          | PINNACLE I.D.  | : 106036   |
| BLANK I. D.  | : 061201                     | DATE EXTRACTED | : NA       |
| CLIENT       | : GOLDEN ENVIRONMENTAL MNGT. | DATE ANALYZED  | : 06/12/01 |
| PROJECT #    | : 6169                       | SAMPLE MATRIX  | : AQUEOUS  |
| PROJECT NAME | : EPFS REMEDIATION PROJECT   |                |            |

| PARAMETER     | UNITS |      |
|---------------|-------|------|
| BENZENE       | UG/L  | <0.5 |
| TOLUENE       | UG/L  | <0.5 |
| ETHYLBENZENE  | UG/L  | <0.5 |
| TOTAL XYLENES | UG/L  | <0.5 |

SURROGATE:

BROMOFLUOROBENZENE (%)

105

SURROGATE LIMITS: ( 80 - 120 )

CHEMIST NOTES:

N/A



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Albuquerque, New Mexico 87107  
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Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL  
MSMSD

TEST : EPA 8021 MODIFIED  
MSMSD # : 106034-04  
CLIENT : GOLDEN ENVIRONMENTAL MNGT.  
PROJECT # : 6169  
PROJECT NAME : EPFS REMEDIATION PROJECT

PINNACLE I.D. : 106036  
DATE EXTRACTED : NA  
DATE ANALYZED : 06/12/01  
SAMPLE MATRIX : AQUEOUS  
UNITS : UG/L

| PARAMETER     | SAMPLE<br>RESULT | CONC<br>SPIKE | SPIKED<br>SAMPLE | %<br>REC | DUP<br>SPIKE | DUP<br>% REC | RPD | REC<br>LIMITS | RPD<br>LIMITS |
|---------------|------------------|---------------|------------------|----------|--------------|--------------|-----|---------------|---------------|
| BENZENE       | 3.4              | 20.0          | 21.2             | 89       | 20.4         | 85           | 4   | ( 80 - 120 )  | 20            |
| TOLUENE       | 0.5              | 20.0          | 19.4             | 95       | 19.1         | 93           | 2   | ( 80 - 120 )  | 20            |
| ETHYLBENZENE  | <0.5             | 20.0          | 19.9             | 100      | 19.7         | 99           | 1   | ( 80 - 120 )  | 20            |
| TOTAL XYLENES | 2.2              | 60.0          | 61.2             | 98       | 60.5         | 97           | 1   | ( 80 - 120 )  | 20            |

CHEMIST NOTES:  
N/A

% Recovery = 
$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

RPD (Relative Percent Difference) = 
$$\frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

## ANALYSIS REQUEST

| PROJECT MANAGER: Lisa Winn |                        | DATE          |        | TIME  | MATRIX | LAB ID |
|----------------------------|------------------------|---------------|--------|-------|--------|--------|
| COMPANY:                   | G.E.M.                 | GCU-0106-MW1  | 6-1-01 | 1410H | 20     | 01     |
| ADDRESS:                   | 906 San Juan Blvd.     |               |        |       |        |        |
| PHONE:                     | Farmington N.M. 87401  | GCU-0106-MW51 | 6-1-01 | 1410  | "      | 02     |
| FAX:                       | (566)                  |               |        |       |        |        |
| BILL TO:                   | EPFS SCOTT POPE        |               |        |       |        |        |
| COMPANY:                   | El Paso Field Services |               |        |       |        |        |
| ADDRESS:                   | 114 Reilly Ave.        |               |        |       |        |        |
|                            | Farmington N.M. 87499  |               |        |       |        |        |

| ANALYSIS REQUEST                                                 |                                                                                                                | NUMBERS | CONTAINERS |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|------------|
| Petroleum Hydrocarbons (418.1) TRPH                              | (MOD.8015) Diesel/Direct Inject                                                                                |         |            |
|                                                                  | (M8015) Gas/Purge & Trap                                                                                       |         |            |
| 8021 (BTEX) (Gasoline) MTBE                                      | 8021 (BTEX) <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TMB <input type="checkbox"/> PCE |         |            |
| 8021 (TCL)                                                       | 8021 (TCL)                                                                                                     |         |            |
| 8021 (EDX)                                                       | 8021 (EDX)                                                                                                     |         |            |
| 8021 (HALO)                                                      | 8021 (HALO)                                                                                                    |         |            |
| 8021 (CUST)                                                      | 8021 (CUST)                                                                                                    |         |            |
| 504.1 EDB <input type="checkbox"/> DBCP <input type="checkbox"/> | 504.1 EDB <input type="checkbox"/> DBCP <input type="checkbox"/>                                               |         |            |
| 8260 (TCL) Volatile Organics                                     | 8260 (TCL) Volatile Organics                                                                                   |         |            |
| 8260 (Full) Volatile Organics                                    | 8260 (Full) Volatile Organics                                                                                  |         |            |
| 8260 (CUST) Volatile Organics                                    | 8260 (CUST) Volatile Organics                                                                                  |         |            |
| 8260 (Landfill) Volatile Organics                                | 8260 (Landfill) Volatile Organics                                                                              |         |            |
| Pesticides /PCB (608/8081/8082)                                  | Pesticides /PCB (608/8081/8082)                                                                                |         |            |
| Herbicides (615/8151)                                            | Herbicides (615/8151)                                                                                          |         |            |
| Base/Neutral/Acid Compounds GC/MS (625/8270)                     | Base/Neutral/Acid Compounds GC/MS (625/8270)                                                                   |         |            |
| Polynuclear Aromatics (610/8310/8270-SIMS)                       | Polynuclear Aromatics (610/8310/8270-SIMS)                                                                     |         |            |
| General Chemistry:                                               | General Chemistry:                                                                                             |         |            |
|                                                                  |                                                                                                                |         |            |
| Priority Pollutant Metals (13)                                   | Priority Pollutant Metals (13)                                                                                 |         |            |
| Target Analyte List Metals (23)                                  | Target Analyte List Metals (23)                                                                                |         |            |
| RCRA Metals (8)                                                  | RCRA Metals (8)                                                                                                |         |            |
| RCRA Metals by TCLP (Method 1311)                                | RCRA Metals by TCLP (Method 1311)                                                                              |         |            |
| Metals:                                                          | Metals:                                                                                                        |         |            |

| PROJECT INFORMATION                         |  | PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS                                                                                |                                              |                                  |            | RELINQUISHED BY:   |                    | RELINQUISHED BY:                  |  |
|---------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|------------|--------------------|--------------------|-----------------------------------|--|
| PROJ. NO.: 6169                             |  | (RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK | (NORMAL) <input checked="" type="checkbox"/> | Signature: <i>Dr. L. M. ...</i>  | Time: 1500 | Signature:         | Time:              |                                   |  |
| PROJ. NAME: <i>EPFS Remediation project</i> |  | CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER                 |                                              | Printed Name:                    | Date:      | Printed Name:      | Date:              |                                   |  |
| P.O. NO.:                                   |  | METHANOL PRESERVATION <input type="checkbox"/>                                                                                   |                                              | <i>Chris Mac ...</i>             | 5-6-01     | Company:           |                    |                                   |  |
| SHIPPED VIA:                                |  | COMMENTS: <input type="checkbox"/> FIXED FEE <input type="checkbox"/>                                                            |                                              | See reverse side (Force Majeure) |            | Company:           |                    |                                   |  |
| SAMPLE RECEIPT                              |  |                                                                                                                                  |                                              | RECEIVED BY:                     |            | RECEIVED BY: (LAB) |                    |                                   |  |
| NO. CONTAINERS: 4                           |  |                                                                                                                                  |                                              | Signature:                       | Time:      | Signature:         | Time:              |                                   |  |
| CUSTODY SEALS: <i>Y/N NA</i>                |  |                                                                                                                                  |                                              |                                  |            | <i>Janene</i>      | <i>Jan 10 1995</i> |                                   |  |
| RECEIVED/INTACT: <i>YES</i>                 |  |                                                                                                                                  |                                              | Printed Name:                    | Date:      | Printed Name:      | Date:              |                                   |  |
| BLUE <i>ICE</i>                             |  |                                                                                                                                  |                                              | Company:                         |            | <i>Janene</i>      | <i>12/10/97</i>    |                                   |  |
|                                             |  |                                                                                                                                  |                                              |                                  |            |                    |                    | <i>Pinnacle Laboratories Inc.</i> |  |

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