3R - 207

# REPORTS

# DATE:

2002

elpaso Field Services

**Certified Mail: #7001 1940 0002 1371 7676**

February 28, 2003



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

**RE: 2002 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 Annual Reports (Volumes 1, 2 and 3) by land type. Volume 1 contains Annual Reports for sites found on Federal land. Volume 2 contains Non Federal sites and Volume 3 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 and EPFS reiterates request for closure of this site. EPFS understands closure of groundwater sites on Navajo land falls under jurisdiction of the Navajo Nation Environmental Protection Agency and original documents have been submitted to them for review. Other Navajo sites are included in the report for your information.

Three additional sites were submitted for closure in 2002. EPFS recently has received closure on the W.D. Heath B-5. Closure approval is pending on the D Loop Line Drip and Hammond # 41A. All of these sites are included in the 2002 Annual Report.

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 0002 1371 7669**
Mr. Bill Liesse, BLM – w / enclosures (federal sites only), **Certified Mail # 7001 1940 0002 1371 7652**

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## El Paso Field Services

# San Juan Basin Pit Program Groundwater Sites Project

# 2002 Annual Report Non-Federal Sites (Volume 2)

March 2003

MWH
10619 South Jordan Gateway, Suite 100
Salt Lake City, Utah 84095

# 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 #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 |

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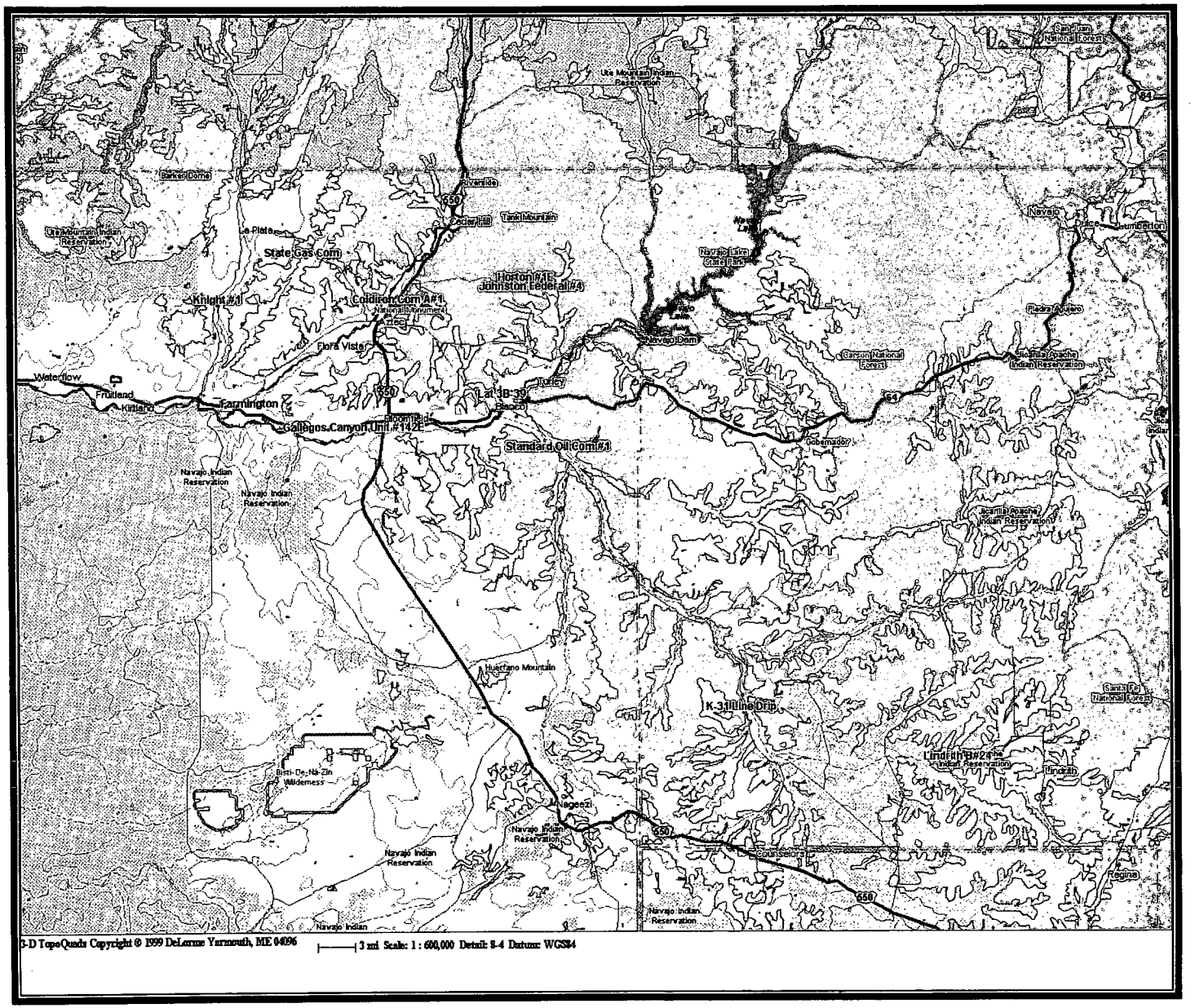
MWH
MONTGOMERY WATSON HARZA

# Non - Federal Groundwater Site Map



# EPFS GROUNDWATER SITES
# 2002 ANNUAL GROUNDWATER REPORT

## Knight #1
## Meter Code: 72556

## SITE DETAILS

**LEGAL DESCRIPTION:** **Twn:** 30N **Rng:** 13W **Sec:** 5 **Unit:** A

**NMOCD Haz Ranking:** 30 **Land Type:** Fee **Operator:** Fuller Petroleum Inc.

## PREVIOUS ACTIVITIES

| | | |
|---|---|---|
| **Site Assessment:** 1/95 | **Excavation:** 1/95 (60 cy) | **Soil Boring:** 10/95 |
| **Monitor Well:** 10/95 | **Geoprobe:** 1/97 | **Additional MWs:** 11/00 |
| **Downgradient MWs:** 12/95 | **Replace MW:** NA | **Quarterly Initiated:** 4/96 |
| **ORC Nutrient Injection:** 11/96 | **Re-Excavation:** NA | **PSH Removal Initiated:** 9/01 |
| **Annual Initiated:** NA | **Quarterly Resumed:** NA | |

## SUMMARY OF 2002 ACTIVITIES

**MW-1:** This well was initially scheduled for semi-annual free-product recovery and water levels. However, beginning in September 2002, the site was rescheduled for quarterly site visits. Free-product recovery and water level measurements were collected in September and December 2002.

**MW-2:**

- Annual groundwater sampling (September) was performed during 2002.
- Quarterly water level measurements were initiated in September 2002.

**MW-3:** This well was initially scheduled for semi-annual free-product recovery and water levels. However, beginning in September 2002, the site was rescheduled for quarterly site visits. Free-product recovery and water level measurements were collected in September and December 2002.

**MW-4:**

- Annual groundwater sampling (September) was performed during 2002.
- Quarterly water level measurements were initiated in September 2002.

**MW-5:**

- Annual groundwater sampling (September) was performed during 2002.
- Quarterly water level measurements were initiated in September 2002.

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

**Knight #1**
**Meter Code: 72556**

## SUMMARY TABLES AND GRAPHS

- Analytical data are summarized on Table 1 and presented graphically in Figures 3 through 7.
- Free-product recovery data are summarized on Table 2 and presented graphically in Figures 8 and 9.
- Laboratory reports are presented in Attachment 1.
- Field documentation is presented in Attachment 2.

## SITE MAP

Site maps are attached as Figures 1 and 2.

## GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2002.

## DISPOSITION OF GENERATED WASTES

All phase-separated hydrocarbons were disposed of at the EPFS Kutz Separator located in Bloomfield, New Mexico.

## ISOCONCENTRATION MAPS

No isoconcentration maps were prepared for this site, however, the attached site maps present the potentiometric surface and analytical data collected during 2002.

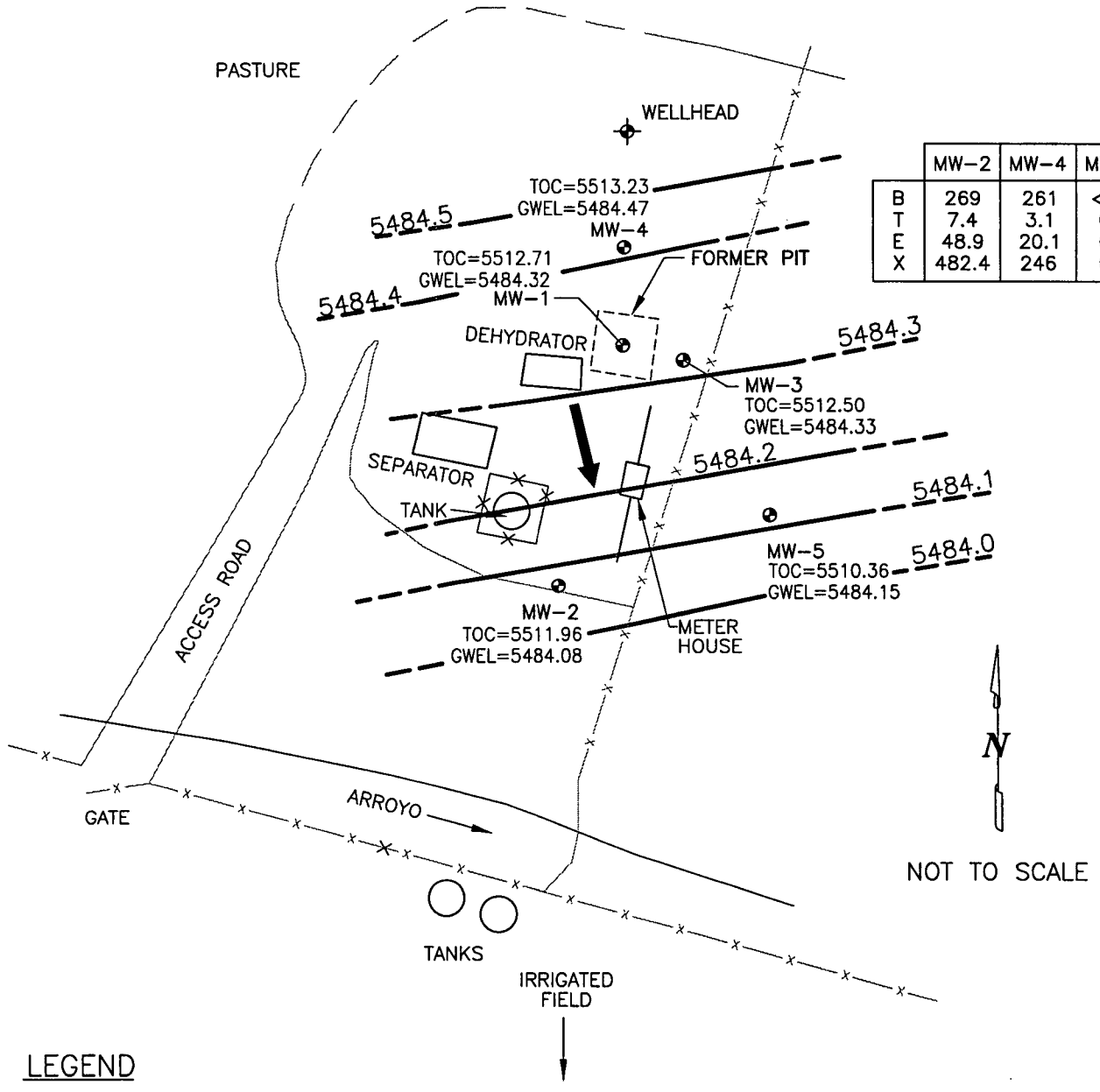
## CONCLUSIONS

- The groundwater flow direction trends to the south/southeast.
- Free-product recovery efforts at MW-1 resulted in removal of approximately 0.08 gallons of free-phase hydrocarbons during 2002 bringing the cumulative total volume recovered to date to 0.23 gallons.
- Laboratory results from the annual sample collected at MW-2 during September indicated a benzene concentration of 269 µg/l which is an increase over the 2001 concentration of 110 µg/l.
- Free-product recovery efforts at MW-3 resulted in removal of approximately 0.09 gallons of free-phase hydrocarbons during 2002 bringing the cumulative total volume recovered to date to 0.61 gallons.
- Laboratory results from the annual sample collected at MW-4 during September indicated a benzene concentration of 261 µg/l which is an increase over the 2001 concentration of 140 µg/l.

- Laboratory results from the annual sample collected at MW-5 during September indicated that BTEX concentrations remain significantly below closure criteria.

## RECOMMENDATIONS

- EPFS will continue free-product recovery efforts at MW-1 and MW-3 on a quarterly basis.
- EPFS recommends redevelopment of monitoring wells MW-1 and MW-3 in an attempt to increase free-product recovery.
- EPFS will continue annual groundwater sampling and quarterly water level monitoring at MW-2 and MW-4 until the concentration of BTEX constituents approach closure criteria. These wells will then be scheduled for quarterly sample collection until closure criteria have been met.
- Because historical analytical data have indicated that BTEX concentrations are below or near detection limits at MW-5, EPFS recommends that this well not be sampled until closure. Water level monitoring at this well will continue on a quarterly basis.




| | MW-2 | MW-4 | MW-5 |
|---|---|---|---|
| B | 269 | 261 | <0.5 |
| T | 7.4 | 3.1 | 0.3 |
| E | 48.9 | 20.1 | 0.9 |
| X | 482.4 | 246 | 0.9 |

## LEGEND

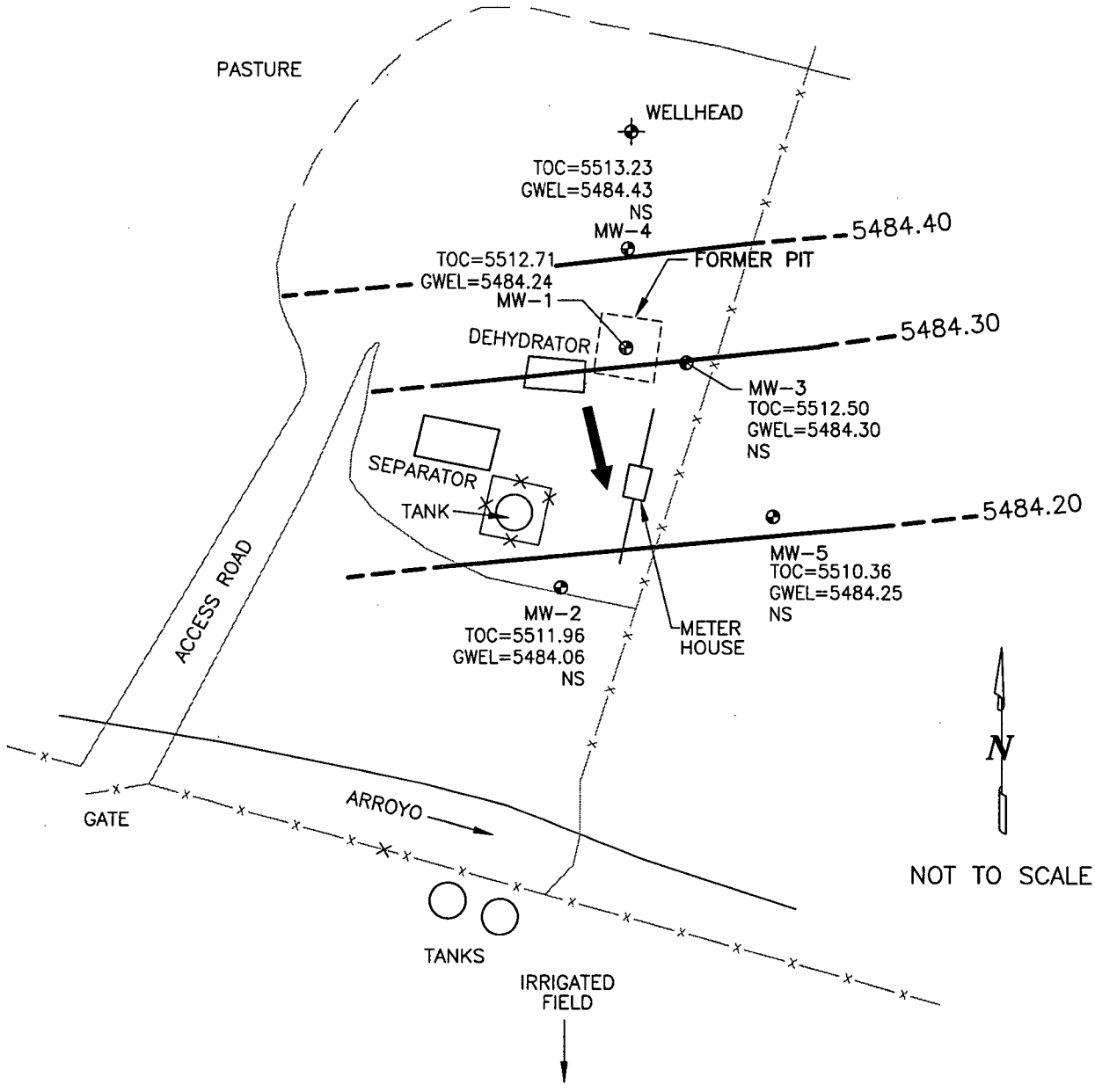
| | |
|---|---|
| MW-1 | Approximate Monitoring Well Location and Number |
| ——— - ——— | Centerline of Road |
| ——//——//—— | Pipe Line |
| B | Benzene (µg/L) |
| T | Toluene (µg/L) |
| E | Ethylbenzene (µg/L) |
| X | Total Xylenes (µg/L) |
| NS | Not Sampled |
| 5794.0 | Potentiometric Surface (Approximate & Assumed Where Dashed) |
| ➡ | Direction of Groundwater Flow (Estimated) |
| GWEL | Groundwater Elevation (FT Above Mean Sea Level Unless Noted Otherwise) |
| TOC | Top of Casing |

knight_02.dwg

KNIGHT #1, METER 72556
SEPTEMBER, 2002

GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 1




## LEGEND

| | | | |
|---|---|---|---|
| MW-1 | Approximate Monitoring Well Location and Number | → | Direction of Groundwater Flow (Estimated) |
| ——— - ——— | Centerline of Road | GWEL | Groundwater Elevation (FT Above Mean Sea Level Unless Noted Otherwise) |
| ——//——//—— | Pipe Line | TOC | Top of Casing |
| NS | Not Sampled | | |
| 5794.0 | Potentiometric Surface (Approximate & Assumed Where Dashed) | | |

knight_02.dwg

KNIGHT #1, METER 72556
DECEMBER, 2002

GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 2

## TABLE 1

## SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER
## KNIGHT #1 (METER #72556)


| Sample Identification | Sample Date | MW Identification | Benzene (µg/l) | Toluene (µg/l) | Ethylbenzene (µg/l) | m,p-Xylene (µg/l) | o-Xylene (µg/l) | Total Xylenes (µg/l) |
|---|---|---|---|---|---|---|---|---|
| 02-4725-1 | 04-Sep-2002 | 2 | 269 | 7.40 | 48.9 | 475 | 7.40 | 482.40 |
| 02-4725-2 | 04-Sep-2002 | 4 | 261 | 3.10 | 20.10 | 246 | 0.50 | 246.50 |
| 02-4725-4 | 04-Sep-2002 | 5 | <0.50 | 0.30 | 0.90 | 0.90 | <0.50 | 0.90 |

**Figure 3**
**Historical BTEX Concentration and Groundwater Elevation vs. Time**
**Knight #1 (Meter #72556)**
**MW-1**

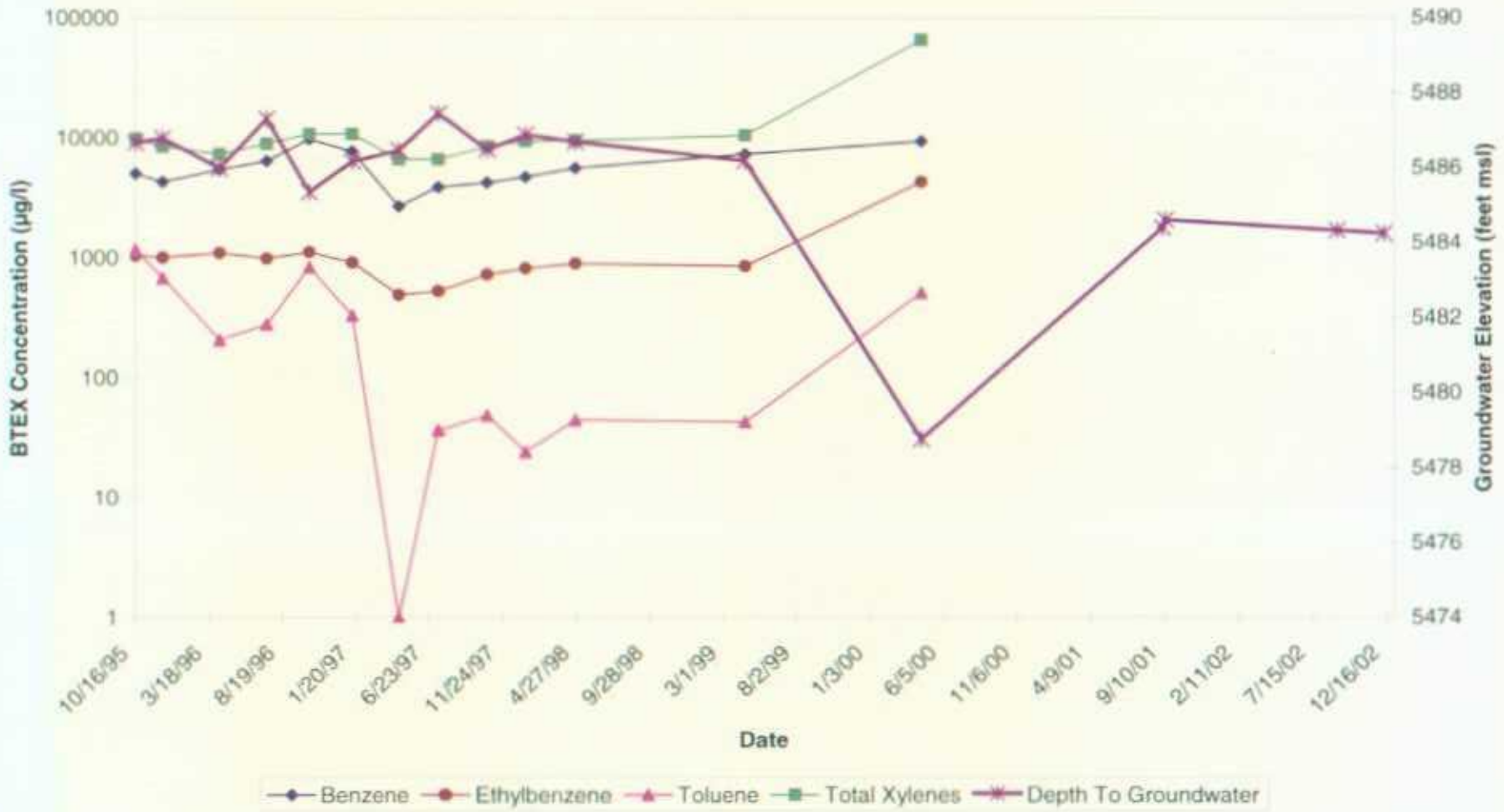


**Figure 4**
**BTEX Concentration and Groundwater Elevation vs. Time**
**Knight #1 (Meter #72556)**
**MW-2**

**Figure 5**
**Historical BTEX Concentration and Groundwater Elevation vs. Time**
**Knight #1 (Meter #72556)**
**MW-3**

**Figure 6**
**BTEX Concentration and Groundwater Elevation vs. Time**
**Knight #1 (Meter #72556)**
**MW-4**

# ATTACHMENT 1

# LABORATORY REPORTS

72556

# DATA VALIDATION WORKSHEET

**Analytical Method/Analytes:** SW-846 8021B (BTEX) **Sample Collection Date(s):** 09/04/02

**Laboratory:** APCL **MWH Job Number:** EPC-SJRB (Ground Water)

**Batch Identification:** 02-04725 **Matrix:** Water

**QC Identification[a]:** **Page:** 1 of 2

**Validation Complete:** [signature] 9-27-02
(Date/Signature)

| Site ID | Sample ID | Lab. ID | Hits (Y/N) | Quals. | Comments |
|---|---|---|---|---|---|
| GW | GW Knight #1 MW-2 | 02-04725-01 | Y | B | Ethylbenzene @ 48.9 µg/l |
| GW | GW Knight #1 MW-4 | 02-04725-02 | Y | B | Ethylbenzene @ 20.1 µg/l |
| GW | GW Knight #1 MW-5 | 02-04725-04 | Y | UB | Ethylbenzene @ 0.9 µg/l |
| GW | GW State Gas MW-4 | 02-04725-03 | Y | B | Ethylbenzene @ 750 µg/l |
| GW | GW State Gas MW-5 | 02-04725-05 | Y | B | Ethylbenzene @ 1310 µg/l |
| QC | TB02090401 | 02-04725-06 | Y | | Ethylbenzene @ 1.0 µg/l |
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# DATA VALIDATION WORKSHEET

**Analytical Method:** SW-846 8021B (BTEX) **MWH Job Number:** EPC-SJRB (Ground Water)

**Laboratory:** APCL **Batch Identification:** 02-04725

| Validation Criteria | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **GW Knight #1 MW-2** | **GW Knight #1 MW-4** | **GW Knight #1 MW-5** | **GW State Gas MW-4** | **GW State Gas MW-5** | | | |
| **Lab ID** | **02-04725-01** | **02-04725-02** | **02-04725-04** | **02-04725-03** | **02-04725-05** | | | |
| Hardcopy vs. Chain-of-Custody | A | A | A | A | A | | | |
| Holding Time | A | A | A | A | A | | | |
| Analyte List | A | A | A | A | A | | | |
| Reporting Limits | A | A | A | A | A | | | |
| Method Blank | A | A | A | A | A | | | |
| Trip Blank | A[1] | A[1] | A[1] | A[1] | A[1] | | | |
| Equipment Rinseate Blanks | N/A | N/A | N/A | N/A | N/A | | | |
| Field Duplicate/Replicate | N/A | N/A | N/A | N/A | N/A | | | |
| Initial Calibration | N | N | N | N | N | | | |
| Initial Calibration Verification (ICV) | N | N | N | N | N | | | |
| Continuing Calibration Verification (CCV) | A | A | A | A | A | | | |
| Laboratory Control Sample (LCS) | A | A | A | A | A | | | |
| Laboratory Control Sample Duplicate (LCSD) | N | N | N | N | N | | | |
| Matrix Spike/Matrix Spike Dup. (MS/MSD) | N/A | N/A | N/A | N/A | A | | | |
| Surrogate Spike Recovery | A | A | A | A | A | | | |
| Retention Time Window | N | N | N | N | N | | | |
| Injection Time(s) | N | N | N | N | N | | | |
| EDD vs. Hardcopy | N | N | N | N | N | | | |
| EDD vs. Chain of Custody | N | N | N | N | N | | | |

(a) List QC batch identification if different than Batch ID
A indicates validation criteria were met
A/L indicates validation criteria met based upon Laboratory's QC Summary Form
X indicates validation criteria were not met
N indicates data review were not a project specific requirement
N/A indicates criteria are not applicable for the specified analytical method or sample
N/R indicates data not available for review

## NOTES:

1) The following analytes were detected in the trip blank:
   a) Ethylbenzene @ 1.0 µg/L, qualify all sample concentrations less than or equal to 5.0 µg/L with a "UB" flag and all sample concentrations greater than 5.0 µg/l with a "B" flag (apply to dilutions proportionally)

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

# APCL Analytical Report

Submitted to:
Montgomery Watson Harza
Attention: Brian Buttars
10619 South Jordan Gateway
Salt Lake City UT 84095
Tel: (801)617-3200 Fax: (801)617-4200

Service ID #: 801-024725
Collected by: Ashley Lowe
Collected on: 09/04/02

Received: 09/06/02
Extracted: N/A
Tested: 09/08-13/02
Reported: 09/16/02

Sample Description: Water
Project Description: 4270032-020105 San Juan River Basin

## Analysis of Water Samples

| Component Analyzed | Method | Unit | PQL | Analysis Result MW-2 GW Knight #1 02-04725-1 | MW-4 GW Knight #1 02-04725-2 | MW-4 GW State Gas 02-04725-3 |
|---|---|---|---|---|---|---|
| **BTXE** | | | | | | |
| Dilution Factor | | | | 1 | 1 | 100 |
| BENZENE | 8021B | µg/L | 0.5 | 269 | 261 | 17,800 |
| ETHYLBENZENE | 8021B | µg/L | 0.5 | 48.9 | 20.1 | 750 |
| TOLUENE | 8021B | µg/L | 0.5 | 7.4 | 3.1 | 13,900 |
| O-XYLENE | 8021B | µg/L | 0.5 | 7.4 | 0.5J | 2,600 |
| M,P-XYLENE | 8021B | µg/L | 1 | 475 | 246 | 8,270 |

| Component Analyzed | Method | Unit | PQL | Analysis Result MW-5 GW Knight #1 02-04725-4 | MW-5 GW State Gas 02-04725-5 | TB02090401 02-04725-6 |
|---|---|---|---|---|---|---|
| **BTXE** | | | | | | |
| Dilution Factor | | | | 1 | 100 | 1 |
| BENZENE | 8021B | µg/L | 0.5 | <0.5 | 21,100 | <0.5 |
| ETHYLBENZENE | 8021B | µg/L | 0.5 | 0.9 | 1,310 | 1.0 |
| TOLUENE | 8021B | µg/L | 0.5 | 0.3J | 190 | <0.5 |
| O-XYLENE | 8021B | µg/L | 0.5 | <0.5 | 70 | <0.5 |
| M,P-XYLENE | 8021B | µg/L | 1 | 0.9J | 5,490 | 1 |

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

# APCL QA/QC Report

Submitted to:
Montgomery Watson Harza
Attention: Brian Buttars
10619 South Jordan Gateway
Salt Lake City, UT 84095
Tel: (801)617-3200 Fax: (801)617-4200

Service ID #: 801-024725
Collected by: Ashley Lowe
Collected on: 09/04/02
Sample description:
Water
Project: San Juan River Basin /4270 032-020105

Received: 09/06/02
Tested: 09/08-13/02
Reported: 09/17/02

## Analysis of Water

801-024725QC

| Component Name | Analysis Batch # | CCV (µg/L) | CCV %Rec | M-Blank | Conc. Unit | SP Level | LCS %Rec | MS %Rec | MSD %Rec | MS/MSD %RPD | Control Limit %Rec | Control Limit %Diff |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BTXE** | | | | | | | | | | | | |
| Benzene | 02G3787 | 100 | 96 | N.D. | µg/L | 18.0 | 91 | 91* | 92* | 1 | 65-129 | 31 |
| Toluene | 02G3787 | 100 | 96 | N.D. | µg/L | 350 | 93 | 77 | 78 | 1 | 66-133 | 33 |
| Ethylbenzene | 02G3787 | 100 | 98 | N.D. | µg/L | 18.0 | 100 | 100* | 100* | 0 | 82-134 | 35 |
| m/p-Xylene | 02G3787 | 200 | 91 | N.D. | µg/L | 70.0 | 96 | 96* | 96* | 0 | 73-134 | 35 |
| o-Xylene | 02G3787 | 100 | 94 | N.D. | µg/L | 125 | 96 | 67 | 71 | 6 | 65-134 | 35 |

| Component Name | Analysis Batch # | CCV (µg/L) | CCV %Rec | M-Blank | Conc. Unit | SP Level | LCS %Rec | MS %Rec | MSD %Rec | MS/MSD %RPD | Control Limit %Rec | Control Limit %Diff |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BTXE** | | | | | | | | | | | | |
| Benzene | 02G3806 | 100 | 93 | N.D. | µg/L | 18.0 | 92 | 89 | 89 | 0 | 68-130 | 31 |
| Toluene | 02G3806 | 100 | 93 | N.D. | µg/L | 70.0 | 92 | 93 | 94 | 1 | 66-133 | 33 |
| Ethylbenzene | 02G3806 | 100 | 95 | N.D. | µg/L | 18.0 | 97 | 95 | 95 | 0 | 65-134 | 35 |
| m/p-Xylene | 02G3806 | 200 | 88 | N.D. | µg/L | 70.0 | 92 | 94 | 95 | 1 | 65-134 | 35 |
| o-Xylene | 02G3806 | 100 | 89 | N.D. | µg/L | 25.0 | 91 | 97 | 97 | 0 | 65-134 | 35 |

| Component Name | Analysis Batch # | CCV (µg/L) | CCV %Rec | M-Blank | Conc. Unit | SP Level | LCS %Rec | MS %Rec | MSD %Rec | MS/MSD %RPD | Control Limit %Rec | Control Limit %Diff |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BTXE** | | | | | | | | | | | | |
| Benzene | 02G3843 | 100 | 99 | N.D. | µg/L | 18.0 | 85 | 85* | 86* | 2 | 65-129 | 31 |
| Toluene | 02G3843 | 100 | 100 | N.D. | µg/L | 7000 | 89 | 90 | 90 | 0 | 66-133 | 33 |
| Ethylbenzene | 02G3843 | 100 | 101 | N.D. | µg/L | 1800 | 97 | 96 | 94 | 2 | 65-134 | 35 |
| m/p-Xylene | 02G3843 | 200 | 94 | N.D. | µg/L | 7000 | 92 | 88 | 88 | 0 | 65-134 | 35 |
| o-Xylene | 02G3843 | 100 | 96 | N.D. | µg/L | 2500 | 91 | 97 | 94 | 4 | 65-134 | 35 |

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

# APCL QA/QC Report

*: LCS/LCSD is used.

Notation:
ICV – Initial Calibration Verification
CCV – Continuation Calibration Verification
LCS – Lab Control Spike
MS – Matrix Spike
MSD – Matrix Spike Duplicate
ICS – Interference Check Standard
MD – Matrix Duplicate
N.D. – Not detected or less than PQL
CCB – Continuation Calibration Blank
M-blank – Method Blank
SP Level – Spike Level
%Rec – Recovery Percent
%RPD – Relative Percent Differences
%Diff – Control Limit for %RPD
ICP-SD – ICP Serial Dilution
N.A. – Not Applicable

Respectfully submitted,

Regina Kirakozova,
Associate QA/QC Director
Applied P & Ch Laboratory

FORM-2A

Applied P & Ch Laboratory

# Surrogate Recovery Summary for Method 8021B

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | Montgomery Watson Harza | Contract No: | | Lab Code: | APCL |
| Case No: | | SAS No: | | SDG Number: | 024725 |
| Project ID: | San Juan River Basin | Project No: | 4270032-020105 | Sample Matrix: | Water |
| | | Batch No: | 02G3787 | | |

| # | Client Sample No | Lab Sample ID | S1 % # | TOT OUT |
|---|---|---|---|---|
| 1 | | 02G3787-LCS-01 | 86 | 0 |
| 2 | | 02G3787-LSD-01 | 86 | 0 |
| 3 | | 02G3787-MB-02 | 87 | 0 |
| 4 | TB02090401 | 02-4725-6 | 89 | 0 |
| 5 | MW-2 GW KNIGHT #1 | 02-4725-1 | 93 | 0 |
| 6 | MW-4 GW KNIGHT #1 | 02-4725-2 | 94 | 0 |
| 7 | MW-5 GW STATE GAS | 02-4725-5MS | 84 | 0 |
| 8 | MW-5 GW STATE GAS | 02-4725-5MSD | 87 | 0 |
| 9 | | | | |
| 10 | | | | |
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| 25 | | | | |

| | QC Control Limit |
|---|---|
| S1 = 4-BROMO-FLUOROBENZENE (PID) | 65-134 |

# Column to be used to flag recovery values:

* – Values outside of contract required QC Limits  D – Surrogate diluted out  I – Matrix Interference

FORM-2A

Applied P & Ch Laboratory

# Surrogate Recovery Summary for Method 8021B

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | Montgomery Watson Harza | Contract No: | | Lab Code: | APCL |
| Case No: | | SAS No: | | Service ID: | 024725 |
| Project ID: | San Juan River Basin | Project No: | 4270032-020105 | Sample Matrix: | Water |
| | | Batch No: | 02G3806 | | |

| # | Client Sample No | Lab Sample ID | S1 % | # | TOT OUT |
|---|---|---|---|---|---|
| 1 | | 02G3806-LCS-01 | 78 | | 0 |
| 2 | | 02G3806-LSD-01 | 80 | | 0 |
| 3 | | 02G3806-MB-02 | 82 | | 0 |
| 4 | MW-4 GW STATE GAS | 02-4725-3 | 91 | | 0 |
| 5 | 821816-0748 | 02-4758-13MS | 86 | | 0 |
| 6 | 821816-0748 | 02-4758-13MSD | 86 | | 0 |
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| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |

QC Control Limit

S1 = 4-BROMO-FLUOROBENZENE (PID) 65-134

# Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

FORM-2A

Applied P & Ch Laboratory

# Surrogate Recovery Summary for Method 8021B

| | | | | | |
|---|---|---|---|---|---|
| Client Name: | Montgomery Watson Harza | Contract No: | | Lab Code: | APCL |
| Case No: | | SAS No: | | Service ID: | 024725 |
| Project ID: | San Juan River Basin | Project No: | 4270032-020105 | Sample Matrix: | Water |
| | | Batch No: | 02G3843 | | |

| # | Client Sample No | Lab Sample ID | S1 % | # | TOT OUT |
|---|---|---|---|---|---|
| 1 | | 02G3843-LCS-01 | 77 | | 0 |
| 2 | | 02G3843-LSD-01 | 84 | | 0 |
| 3 | | 02G3843-MB-02 | 87 | | 0 |
| 4 | MW-5 GW KNIGHT #1 | 02-4725-4 | 88 | | 0 |
| 5 | MW-5 GW STATE GAS | 02-4725-5 | 87 | | 0 |
| 6 | MW-5 GW STATE GAS | 02-4725-5MS | 88 | | 0 |
| 7 | MW-5 GW STATE GAS | 02-4725-5MSD | 85 | | 0 |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |

| | QC Control Limit |
|---|---|
| S1 = 4-BROMO-FLUOROBENZENE (PID) | 65-134 |

# Column to be used to flag recovery values:

* – Values outside of contract required QC Limits  D – Surrogate diluted out  I – Matrix Interference

# CHAIN OF CUSTODY RECORD/LAB WORK REQUEST

LABORATORY APCL
Contract El Paso Corp., San Jaun River Basin

Chain of Custody ID 020904AL01
Page 1 of 1
Air Bill No. 834715209726

**MWH**
Phone (801) 617-3200 FAX (801) 617-4200
MWH Contact Brian Buttars
Project 4270032-020105
Project Number San Juan River Basin
Date Due 21 Days
Sampler's Name Ashley Lowe
(print clearly)

| Location ID | Sample ID | Depth Interval (ft) | Date Collected | Time Collected | Matrix [a] | Sampling Technique [b] | BTEX SW-846 8021B | Alkalinity SM 2320B | TDS USEPA 160.1 | NM WQCC Metals SW-846 6010B & 7470A | Cations SW-846 6010B | Anions USEPA 300.0 | Nitrate USEPA 300.0 | Nitrite USEPA 300.0 | | | No Preservative | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW Knight #1 | MW-4 | | 9/4/02 | 9:36 | WG | B | ✓ | | | | | | | | | | | |
| GW Knight #1 | MW-2 | | 9/4/02 | 11:31 | WG | B | ✓ | | | | | | | | | | | |
| GW Knight #1 | MW-5 | | 9/4/02 | 12:02 | WG | B | ✓ | | | | | | | | | | | |
| GW State Gas Com | MW-4 | | 9/4/02 | 13:45 | WG | B | ✓ | | | | | | | | | | ✓ | |
| GW State Gas Com | MW-5 | | 9/4/02 | 15:02 | WG | B | ✓ | | | | | | | | | | ✓ | |
| TB020904 01 | | | 9/4/02 | | | | ✓ | | | | 4725 | | | | | | | |

ANALYSES REQUESTED

[a] **Matrix:**
SO – Soil
WS – Surface Water
WG – Ground Water
AA – Air
WQ – Trip Blank/ Equipment Blanks
WW – Wastewater

[b] **Sampling Technique:**
Composite=C
Grab=G
Hand Auger=HA
Submersible Pump=SP
Bladder Pump=BP
Bailer=B
Wellhead Faucet=WF
Hydropunch=HP

**Location IDs:**
Groundwater Sites=GW
Bisti=BI
Jaquez=JA
North Flare Pit=NF
South Flare Pit=SF
San Juan River Plant=SJ

| Relinquished by/Affiliation | Received by/Affiliation | Date | Time |
|---|---|---|---|
| Ashley L Lowe/AESE | | 9/5/02 | 10:00 |
| | | 9/6/02 | 0930 |
| | | | |
| | | | |

**LABORATORY USE ONLY**

**SAMPLES WERE:**

1 Shipped or hand delivered
*Notes:*

2 Ambient or Chilled
*Notes:*

3 Temperature _____

4 Received Broken/Leaking (Improperly Sealed)
Y N
*Notes:*

5 Properly Preserved
Y N
*Notes:*

6 Received Within Holding Times
Y N
*Notes:*

**COC Tape Was:**

1 Present on Outer Package
Y N NA

2 Unbroken on Outer Package
Y N NA

3 Present on Sample
Y N NA

4 Unbroken on Sample
Y N NA
*Notes:*

Discrepancies Between Sample Labels and COC Record?
Y N
*Notes:*

# ATTACHMENT 2

# FIELD DOCUMENTATION

# Product Recovery and Well Observation Data

Project Name: San Juan River Basin
Project Manager: Delbert Bekis
Client Company: MWH
Site Name: Knight #1

Project No: 220013
Date: 12-10-02

| Well | Time | Depth to Water (ft) | Depth to Product (ft) | Total Well Depth (ft) | Product Thickness (ft) | Volume Removed | Comments |
|---|---|---|---|---|---|---|---|
| MW-3 | | 28.20 | 28.17 | 37.925 | .03 | .10 oz | light colored product, clear after bailing |
| | | | | | | | |
| | | | | | | | |
| MW-1 | | 28.47 | 28.31 | 33.880 | .16 | | Bailed Dry |
| | | | | | | | |
| MW-2 | | 27.90 | | | | | |
| MW-4 | | 28.80 | | | | | |
| MW-5 | | 26.11 | | | | | |
| | | | | | | | |
| | | | | | | | |

COMMENTS:
MW-1 was bailed dry ≈ 1 gal of water & product.

MW-3 - light colored product, clear after bailing out ≈ 1 gal. & 10 oz of product.

Signature: Delbert Bekis
Date: 12/10/02

# WELL D[redacted]PMENT AND SAMPLING LOG

Project No: 220013 Project Name: San Juan River Basin Client: Montgomery Watson

Location: Knight #1 Well No: MW-4 Development ☐ Sampling ☑

Project Manager Ashley Lowe Date 09/04/02 Start Time 8:30 Weather 72°, sunny

Depth to Water 28.755' Depth to Product [redacted] Product Thickness _____ Measuring Point Top of Casing

Water Column Height 8.015' Well Dia. 4" TD 36.770

Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐

Bottom Valve Bailer ☑ Double Check Valve Bailer ☐ Stainless-Steel Kemmerer ☐

Criteria: 3 to 5 Casing Volumes of Water Removal ☑ Sabilization of Indicator Parameters ☐ Other or bail dry

| Gal/ft x ft of water | Water Volume In Well | | Gal/oz to be removed |
|---|---|---|---|
| | Gallons | Ounces | |
| 0.65 x 8.02 | 5.21 x 3 | | 15.63 gal |

| Time (military) | pH | SC (umhos/cm) | Temp (°C) | Eh-ORP (millivolts) | D.O. (mg/L) | Turbidity (NTU) | Vol Evac. (gal.) | Comments/ Flow rate |
|---|---|---|---|---|---|---|---|---|
| 8:35 | 7.13 | 16916 | 17.4 | | | | 0.5 gal | light yellow, strong odor |
| | 7.01 | 1630 | 16.6 | | | | 1 | |
| | 7.29 | 16162 | 16.3 | | | | 3 | grayer color |
| | 6.97 | 1674 | 16.3 | | | | 5 | |
| | 7.02 | 1678 | 16.3 | | | | 7 | |
| | 6.96 | 1697 | 16.4 | | | | 9 | |
| | 6.98 | 1706 | 16.2 | | | | 11 | brownish-gray color |
| | 7.07 | 1720 | 16.2 | | | | 12 | |
| | 7.09 | 1713 | 16.2 | | | | 13 | |
| | 7.09 | 1729 | 16.6 | | | | 14 | |
| | 7.12 | 1727 | 16.2 | | | | 15 | |
| | 7.11 | 1730 | 16.4 | | | | 16 | good recovery |
| 9:36 | | | | | | | | Sample |

**Final:**

| Time | pH | SC | Temp | Eh-ORP | D.O. | Turbidity | Ferrous Iron | Vol Evac. | Comments/Flow rate |
|---|---|---|---|---|---|---|---|---|---|
| 9:36 | 7.11 | 1730 | 16.4 | | | | | 16 gal | |

COMMENTS: _____

INSTRUMENTATION: pH Meter ☑ _____ Temperature Meter ☑ _____

DO Monitor ☐ _____ Other ☐ _____

Conductivity Meter ☑ _____

Water Disposal Kutz Plant

Sample ID Knight #1 MW-4 Sample Time 9:36 BTEX ☑ VOCs ☐ Alkilinity ☐

TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Ammonia ☐ TKN ☐ NM WQCC Metals ☐

Total Phosphorus ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐

MS/MSD _____ BD _____ BD Name/Time _____ TB TB020904O1

# WELL DEVELOPMENT AND SAMPLING LOG

Project No: 220013 Project Name: San Juan River Basin Client: MWH

Location: Knight #1 Well No: MW-2 Development ☐ Sampling ☑

Project Manager Ashley Lowe Date 09/04/02 Start Time 10:32 Weather 72°, Sunny

Depth to Water 27.88 Depth to Product NA Product Thickness NA Measuring Point top of casing

Water Column Height 8.995 Well Dia. 4" TD 36.875

Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐

Bottom Valve Bailer ☑ Double Check Valve Bailer ☐ Stainless-Steel Kemmerer ☐

Criteria: 3 to 5 Casing Volumes of Water Removal ☑ Sabilization of Indicator Parameters ☑ Other or bail dry

| Gal/ft x ft of water | Water Volume In Well | | Gal/oz to be removed |
|---|---|---|---|
| | Gallons | Ounces | |
| 0.65 x 8.995 | 5.8 x 3 | | 17.5 gal |

| Time (military) | pH | SC (umhos/cm) | Temp (°C) | Eh-ORP (millivolts) | D.O. (mg/L) | Turbidity (NTU) | Vol Evac. (gal.) | Comments/ Flow rate |
|---|---|---|---|---|---|---|---|---|
| 10:36 | 7.47 | 1630 | 22.6 | | | | 1gal | clear, but strong odor |
| | 6.99 | 1649 | 20.5 | | | | 3 | grayish color |
| | 7.03 | 1759 | 20.2 | | | | 5 | |
| | 7.09 | 1782 | 19.6 | | | | 7 | |
| | 7.06 | 1865 | 19.7 | | | | 9 | light brown |
| | 7.11 | 1897 | 21.2 | | | | 11 | |
| | 7.09 | 1901 | 21.0 | | | | 13 | |
| | 7.09 | 1889 | 20.9 | | | | 14 | |
| | 7.10 | 1892 | 20.8 | | | | 15 | |
| | 7.08 | 1892 | 21.0 | | | | 16 | |
| | 7.09 | 1894 | 20.9 | | | | 17 | |
| | 7.08 | 1895 | 20.9 | | | | 18 | |
| 11:31 | | | | | | | | sample |

**Final:**

| Time | pH | SC | Temp | Eh-ORP | D.O. | Turbidity | Ferrous Iron | Vol Evac. | Comments/Flow rate |
|---|---|---|---|---|---|---|---|---|---|
| 11:31 | 7.08 | 1895 | 20.9 | | | | | 18 | |

COMMENTS:

INSTRUMENTATION: pH Meter ☑ ____ Temperature Meter ☑ ____

DO Monitor ☐ ____ Other ☐ ____

Conductivity Meter ☑ ____

Water Disposal Kutz Plant

Sample ID Knight #1 MW-2 Sample Time 11:31 BTEX ☑ VOCs ☐ Alkilinity ☐

TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Ammonia ☐ TKN ☐ NM WQCC Metals ☐

Total Phosphorus ☐ ____ ☐ ____ ☐ ____ ☐ ____ ☐

MS/MSD ____ BD ____ BD Name/Time ____ TB TBD2090401

# Product Recovery and Well Observation Data

Project Name: San Juan River Basin
Project Manager: Ashley Lowe
Client Company: MWH
Site Name: Knight #1

Project No: 220013
Date: 09/04/02

| Well | Time | Depth to Water (ft) | Depth to Product (ft) | Total Well Depth (ft) | Product Thickness (ft) | Volume Removed | Comments |
|---|---|---|---|---|---|---|---|
| MW-3 | 9:52 | 28.168 | 28.160 | ~~37.296~~ | 0.008 | ~2 oz | bright yellow product - stuck to sides of bailer - did not form true layer of any thickness in bailer |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| MW-1 | 10:11 | 28.390 | 28.305 | 33.880 | 0.085 | ~5 oz | bright yellow color |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

COMMENTS:

Signature: Ashley L Lowe
Date: 09/04/02

# WELL DEVELOPMENT AND SAMPLING LOG

Project No: 220013 Project Name: San Juan River Basin Client: MWH

Location: Knight #1 Well No: MW-5 Development ☐ Sampling ☑

Project Manager Ashley Lowe Date 09/04/02 Start Time 11:39 Weather 72°, sunny

Depth to Water 26.205 Depth to Product NA Product Thickness NA Measuring Point TOC

Water Column Height 6.593' Well Dia. 2" TD: 32.798

Sampling Method: Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ☐

Bottom Valve Bailer ☑ Double Check Valve Bailer ☐ Stainless-Steel Kemmerer ☐

Criteria: 3 to 5 Casing Volumes of Water Removal ☑ Sabilization of Indicator Parameters ☑ Other or bail dry

| Gal/ft x ft of water | Water Volume In Well | | Gal/oz to be removed |
|---|---|---|---|
| | Gallons | Ounces | |
| 0.16 x 6.593 | 1.05 x 3 | | 3.2 gal |

| Time (military) | pH | SC (umhos/cm) | Temp (°C) | Eh-ORP (millivolts) | D.O. (mg/L) | Turbidity (NTU) | Vol Evac. (gal.) | Comments/ Flow rate |
|---|---|---|---|---|---|---|---|---|
| 11:44 | 7.63 | 1959 | 20.4 | | | | 32oz | clear |
| | 7.30 | 1889 | 18.1 | | | | 64 | reddish brown, dirty |
| | 7.19 | 1845 | 16.6 | | | | 128 | |
| | 7.13 | 1816 | 15.9 | | | | 160 | |
| | 7.10 | 1815 | 15.6 | | | | 192 | clearer |
| | 7.12 | 1815 | 15.5 | | | | 224 | |
| 1202 | | | | | | | | sample |

**Final:**

| Time | pH | SC | Temp | Eh-ORP | D.O. | Turbidity | Ferrous Iron | Vol Evac. | Comments/Flow rate |
|---|---|---|---|---|---|---|---|---|---|
| 1202 | 7.12 | 1815 | 15.5 | | | | | 224oz | |

COMMENTS:

INSTRUMENTATION: pH Meter ☑ _____ Temperature Meter ☑ _____

DO Monitor ☐ _____ Other ☐ _____

Conductivity Meter ☑ _____

Water Disposal Kutz Plant

Sample ID Knight #1 MW-5 Sample Time 12:02 BTEX ☑ VOCs ☐ Alkilinity ☐

TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Ammonia ☐ TKN ☐ NM WQCC Metals ☐

Total Phosphorus ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐

MS/MSD _____ BD _____ BD Name/Time _____ TB TB020904-01

# CHAIN OF CUSTODY RECORD/LAB WORK REQUEST

LABORATORY APCL
Contract El Paso Corp., San Jaun River Basin

Chain of Custody ID 020704AL01
Page 1 of 1
Air Bill No. 834715209726

**MWH**
Phone (801) 617-3200 FAX (801) 617-4200
MWH Contact Brian Buttars
Project 4276032-020105
Project Number San Juan River Basin
Date Due 21 Days
Sampler's Name Ashley Lowe
(print clearly)

| Location ID | Sample ID | Depth Interval (ft) | Date Collected | Time Collected | Matrix[a] | Sampling Technique[b] | BTEX SW-846 8021B | Alkalinity SM 2320B | TDS USEPA 160.1 | NM WQCC Metals SW-846 6010B & 7470A | Cations SW-846 6010B | Anions USEPA 300.0 | Nitrate USEPA 300.0 | Nitrite USEPA 300.0 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW Knight #1 | MW-4 | | 9/4/02 | 9:36 | WG | B | ✓ | | | | | | | | | | | |
| GW Knight #1 | MW-2 | | 9/4/02 | 11:31 | WG | B | ✓ | | | | | | | | | | | |
| GW Knight #1 | MW-5 | | 9/4/02 | 12:02 | WG | B | ✓ | | | | | | | | | | | |
| GW State Gas Com | MW-4 | | 9/4/02 | 13:45 | WG | B | ✓ | | | | | | | | | | | |
| GW State Gas Com | MW-5 | | 9/4/02 | 15:02 | WG | B | ✓ | | | | | | | | | | | |
| TB020904 01 | | | 9/4/02 | | | | ✓ | | | | | | | | | | | |

ANALYSES REQUESTED

**LABORATORY USE ONLY**

**SAMPLES WERE:**
1 Shipped or hand delivered
*Notes:*
2 Ambient or Chilled
*Notes:*
3 Temperature _____
4 Received Broken/Leaking (Improperly Sealed)
Y N
*Notes:*
5 Properly Preserved
Y N
*Notes:*
6 Received Within Holding Times
Y N
*Notes:*

**COC Tape Was:**
1 Present on Outer Package
Y N NA
2 Unbroken on Outer Package
Y N NA
3 Present on Sample
Y N NA
4 Unbroken on Sample
Y N NA
*Notes:*

Discrepancies Between Sample Labels and COC Record?
Y N
*Notes:*

[a] **Matrix:**
SO – Soil
WS – Surface Water
WG – Ground Water
AA – Air
WQ – Trip Blank/ Equipment Blanks
WW – Wastewater

[b] **Sampling Technique:**
Composite=C
Grab=G
Hand Auger=HA
Submersible Pump=SP
Bladder Pump=BP
Bailer=B
Wellhead Faucet=WF
Hydropunch=HP

**Location IDs:**
Groundwater Sites=GW
Bisti=BI
Jaquez=JA
North Flare Pit=NF
South Flare Pit=SF
San Juan River Plant=SJ

| Relinquished by/Affiliation | Received by/Affiliation | Date | Time |
|---|---|---|---|
| Ashley L Lowe/AESE | | 9/5/02 | 10:00 |
| | | | |
| | | | |
| | | | |

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Form I.D. No. 0210 **Sender's Copy**

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- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

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**4b Express Freight Service** *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

**5 Packaging** * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other

**6 Special Handling** Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [x] HOLD Weekday at FedEx Location — NOT Available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

**7 Payment** *Bill to:* See FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. or Credit Card No. 1421-27-695 Exp. Date

| Total Packages | Total Weight | Total Declared Value† | FedEx Use Only |
|---|---|---|---|
| 1 | 10 lbs | $ .00 | |

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**8 Release Signature** *Sign to authorize delivery without obtaining signature.*

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