

3R - 174

REPORTS

DATE:

2003

3R174



Certified Mail: #7002 0510 0000 0307 7497

February 26, 2004

RECEIVED

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

MAR 03 2004

**Oil Conservation Division
Environmental Bureau**

RE: 2003 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 24 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 24 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 24 reports submitted, EPFS is requesting closure of one site located on Navajo lands (Jennepah #1). EPFS understands closure of groundwater sites on Navajo lands 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.

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 # 7002 0510 0000 0307 7473**
Mr. Bill Liesse, BLM - w / enclosures (federal sites only), **Certified Mail # 7002 0510 0000 0307 7466**

**2003 ANNUAL GROUNDWATER REPORT
FEDERAL SITES VOLUME I
EL PASO FIELD SERVICES**

TABLE OF CONTENTS

| METER or LINE ID | SITE NAME | TOWNSHIP | RANGE | SECTION | UNIT |
|------------------|---------------------------------|----------|-------|---------|------|
| 89961 | Fields A#7A | 32N | 11W | 34 | E |
| 89232 | Johnston Fed #6A | 31N | 09W | 35 | F |
| 94715 | James F. Bell #1E | 30N | 13W | 10 | P |
| 89620 | Sandoval GC A #1A | 30N | 09W | 35 | C |
| LD151 | Lat 0-21 Line Drip | 30N | 09W | 12 | O |
| 73220 | Fogelson 4-1-Com #14 | 29N | 11W | 4 | P |
| 97213 | Hamner #9 | 29N | 09W | 20 | A |
| LD174 | LAT L 40 | 28N | 04W | 13 | H |
| 89894 | Hammond #41A | 27N | 08W | 25 | O |
| 94810 | Miles Fed 1A | 26N | 07W | 5 | F |
| LD072 | K27 LD072 | 25N | 06W | 4 | E |
| 87640 | Canada Mesa #2 | 24N | 06W | 24 | I |



MWH
MONTGOMERY WATSON HARZA

LIST OF ACRONYMS

| | |
|--------|---|
| B | benzene |
| btoc | below top of casing |
| E | ethylbenzene |
| EPFS | El Paso Field Services |
| ft | foot/feet |
| GWEL | groundwater elevation |
| ID | identification |
| MW | monitoring well |
| PSH | phase-separated hydrocarbons |
| NMWQCC | New Mexico Water Quality Control Commission |
| T | toluene |
| TOC | top of casing |
| NA | not applicable |
| NE | not established |
| NM | not measured |
| NMOCD | New Mexico Oil Conservation Division |
| NS | not sampled |
| ORC | oxygen-releasing compound |
| ppb | parts per billion |
| µg/L | micrograms per liter |
| X | total xylenes |

**EPFS GROUNDWATER SITES
2003 ANNUAL GROUNDWATER REPORT**

**Fogelson 4-1 Com #14
Meter Code: 73220**

SITE DETAILS

| | | | | |
|------------------------------|-------------------|-------------------|------------------|----------------------|
| Legal Description: | Town: 29N | Range: 11W | Sec: 4 | Unit: P |
| NMOCD Haz Ranking: 10 | Land Type: | Federal | Operator: | Burlington Resources |

PREVIOUS ACTIVITIES

| | | | | | |
|--------------------------------|-------|---------------------------|----------------|-------------------------------|-------|
| Site Assessment: | 3/94 | Excavation: | 4/94 (65cy) | Soil Boring: | 10/95 |
| Monitor Well: | 10/95 | Geoprobe: | 12/96 | Additional MWs: | 6/00 |
| Downgradient MWs: | 6/00 | Replace MW: | NA | Quarterly Initiated: | 12/96 |
| ORC Nutrient Injection: | 8/01 | Re-Excavation: | NA | PSH Removal Initiated: | NA |
| Annual Initiated: | 6/98 | Quarterly Resumed: | NA | | |

SUMMARY OF 2003 ACTIVITIES

MW-1: Semi-annual groundwater sampling was performed during 2003. Oxygen releasing compound (ORC) socks in MW-1 were replaced during November 2003.

MW-2: Semi-annual water level monitoring was performed during 2003.

MW-3: Annual groundwater sampling was performed in May 2003. Semi-annual water level monitoring was performed during 2003.

Site-Wide Activities: No other activities were performed at this site during 2003.

SITE MAPS

Site maps (May and November) are attached as Figures 1 and 2.

SUMMARY TABLES AND GRAPHS

- Analytical data from 2003 are summarized in Table 1, and historic data are presented graphically in Figures 3 through 5.
- Laboratory reports are presented in Attachment 1.
- Field documentation is presented in Attachment 2.

**EPFS GROUNDWATER SITES
2003 ANNUAL GROUNDWATER REPORT**

**Fogelson 4-1 Com #14
Meter Code: 73220**

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2003.

DISPOSITION OF GENERATED WASTES

No wastes were generated at this site during 2003.

ISOCONCENTRATION MAPS

No isoconcentration maps were prepared for this site, however, the attached site maps present both water level and analytical data collected during 2003.

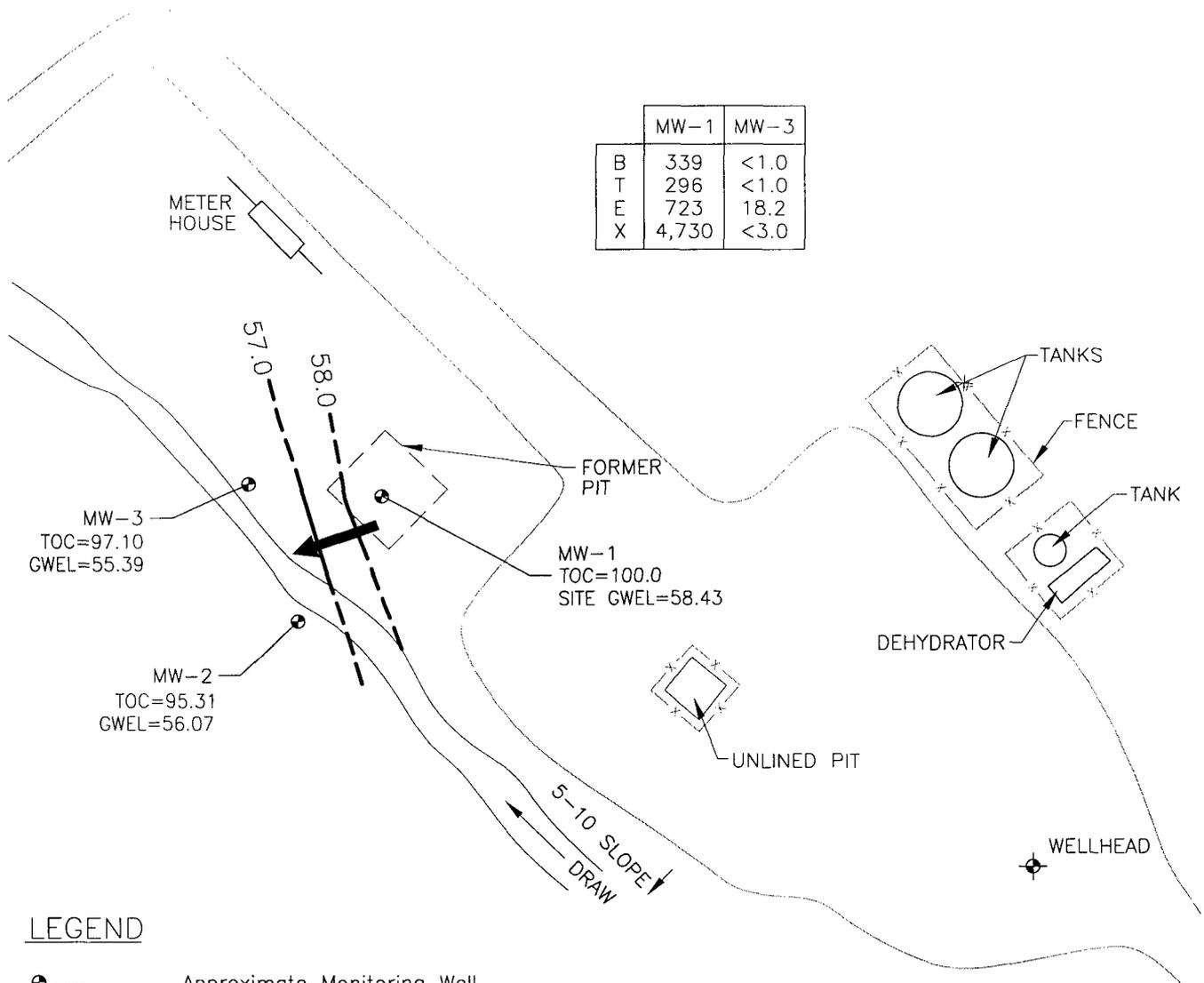
CONCLUSIONS

- The benzene concentrations in MW-1 remained elevated (339 µg/L and 401 µg/L in May and November 2003, respectively) during 2003. However, concentrations have decreased slightly since 2002 (430 and 625 µg/L in May and November 2002, respectively). Historically, benzene concentrations in MW-1 have decreased significantly from 1,520 µg/L in 1995, when sampling was initiated.
- BTEX concentrations in MW-2 and MW-3 have continued to be below closure criteria in 2003.
- The groundwater flow direction is to the west.

RECOMMENDATION

- EPFS will continue the use of ORC socks in MW-1 to enhance biodegradation of dissolved-phase contaminants. The ORC socks will continue to be inspected annually and replaced as necessary.
- EPFS will continue annual groundwater sampling at MW-1 until BTEX concentrations approach closure criteria. Sampling will then continue on a quarterly basis until closure criteria are met.
- Because BTEX sampling at MW-2 and MW-3 have historically indicated concentrations less than closure criteria, EPFS recommends that these wells not be sampled until closure.

| | MW-1 | MW-3 |
|---|-------|------|
| B | 339 | <1.0 |
| T | 296 | <1.0 |
| E | 723 | 18.2 |
| X | 4,730 | <3.0 |



LEGEND

- MW-1 Approximate Monitoring Well Location and Number
- x — x — Fence Line
- 6566.0 Potentiometric Surface (Assumed Where Dashed)
- ➔ Direction of Groundwater Flow (Estimated)
- B Benzene (µg/L)
- T Toluene (µg/L)
- E Ethylbenzene (µg/L)
- X Total Xylenes (µg/L)
- GWEL Groundwater Elevation (Relative Elevation)
- TOC Top of Casing
- < Not Detected. Value Shown is Detection Limit.



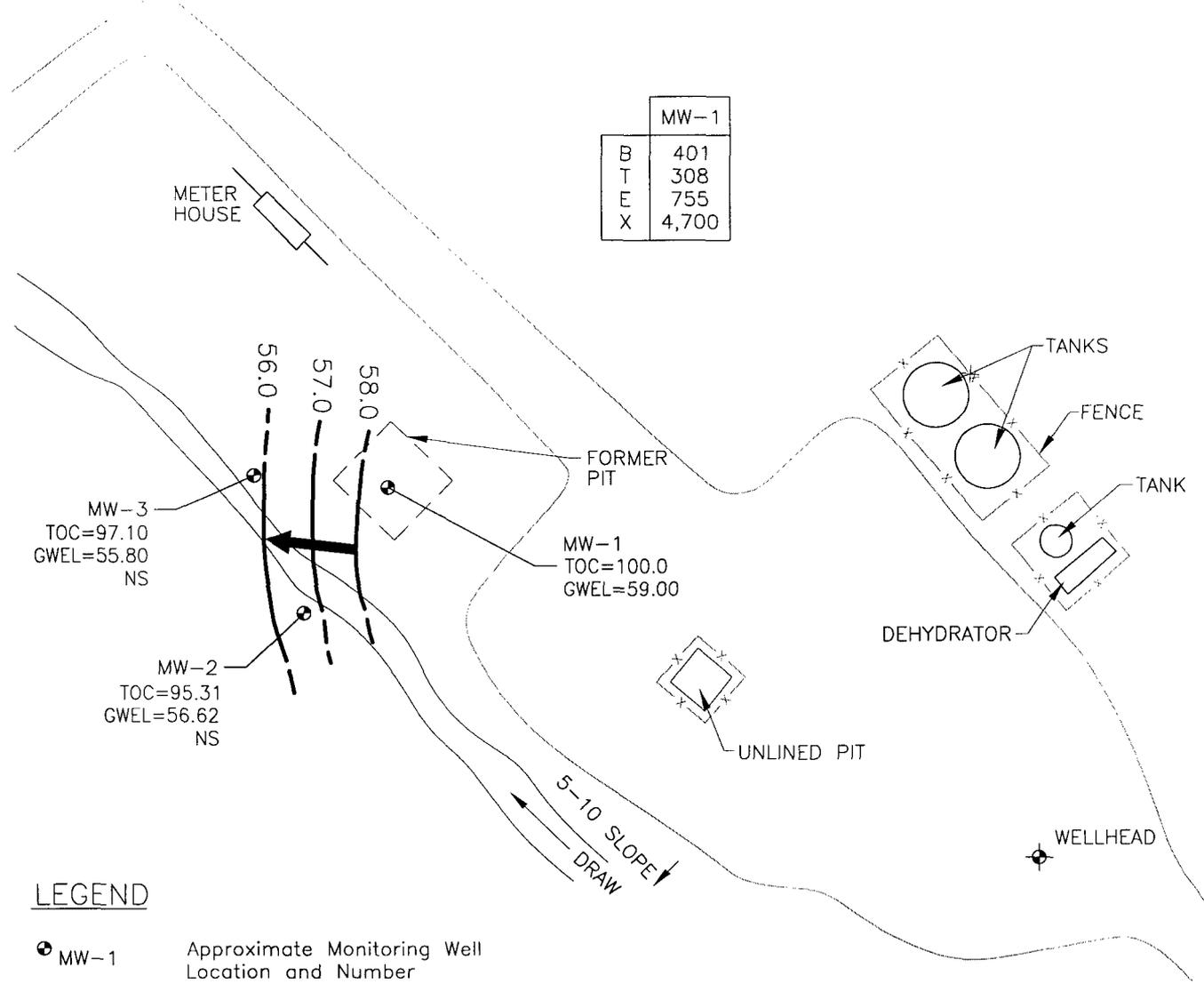
NOT TO SCALE

fogelson41_03.dwg

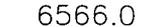
FOGELSON 4-1 COM #14, METER 73220
MAY 2003

GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 1



LEGEND

-  MW-1 Approximate Monitoring Well Location and Number
-  Fence Line
-  6566.0 Potentiometric Surface (Assumed Where Dashed)
-  Direction of Groundwater Flow (Estimated)
- B Benzene ($\mu\text{g/L}$)
- T Toluene ($\mu\text{g/L}$)
- E Ethylbenzene ($\mu\text{g/L}$)
- X Total Xylenes ($\mu\text{g/L}$)
- GWEL Groundwater Elevation (Relative Elevation)
- TOC Top of Casing
- NS Not Sampled



NOT TO SCALE

FOGELSON 4-1 COM #14, METER 73220
NOVEMBER 2003

GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 2

TABLE 1

SUMMARY OF BTEX COMPOUNDS IN 2003 GROUNDWATER SAMPLES
 FOGELSON 4-1 COM #14 (METER #73220)

| Site Name | Monitoring Well | Sample Date | Benzene (ug/L) | Toluene (ug/L) | Ethylbenzene (ug/L) | Total Xylenes (ug/L) | Depth to Water (ft btoc) |
|-----------------------|-----------------|-------------|-------------------|-------------------|------------------------|-------------------------|-----------------------------|
| Fogelson 4-1 Com. #14 | MW-1 | 5/21/2003 | 339 | 296 | 723 | 4,730 | 41.57 |
| Fogelson 4-1 Com. #14 | MW-1 | 11/15/2003 | 401 | 308 | 755 | 4,700 | 41.00 |
| Fogelson 4-1 Com. #14 | MW-3 | 5/21/2003 | < 1.0 | < 1.0 | 18.2 | < 3.0 | 41.71 |

FIGURE 3
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
FOGELSON 4-1 COM #14
MW-1

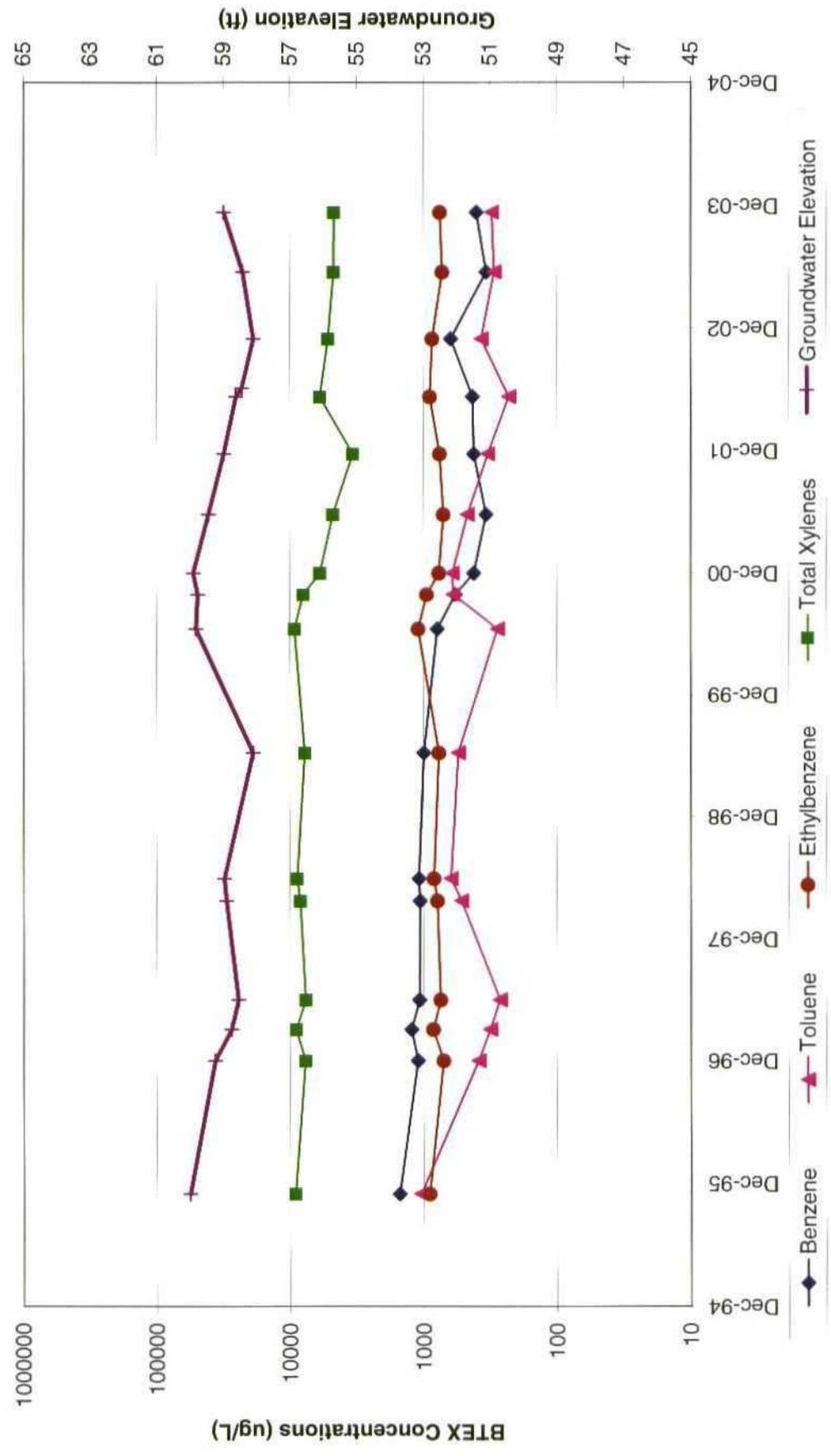


FIGURE 4
 HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
 FOGELSON 4-1 COM #14
 MW-2

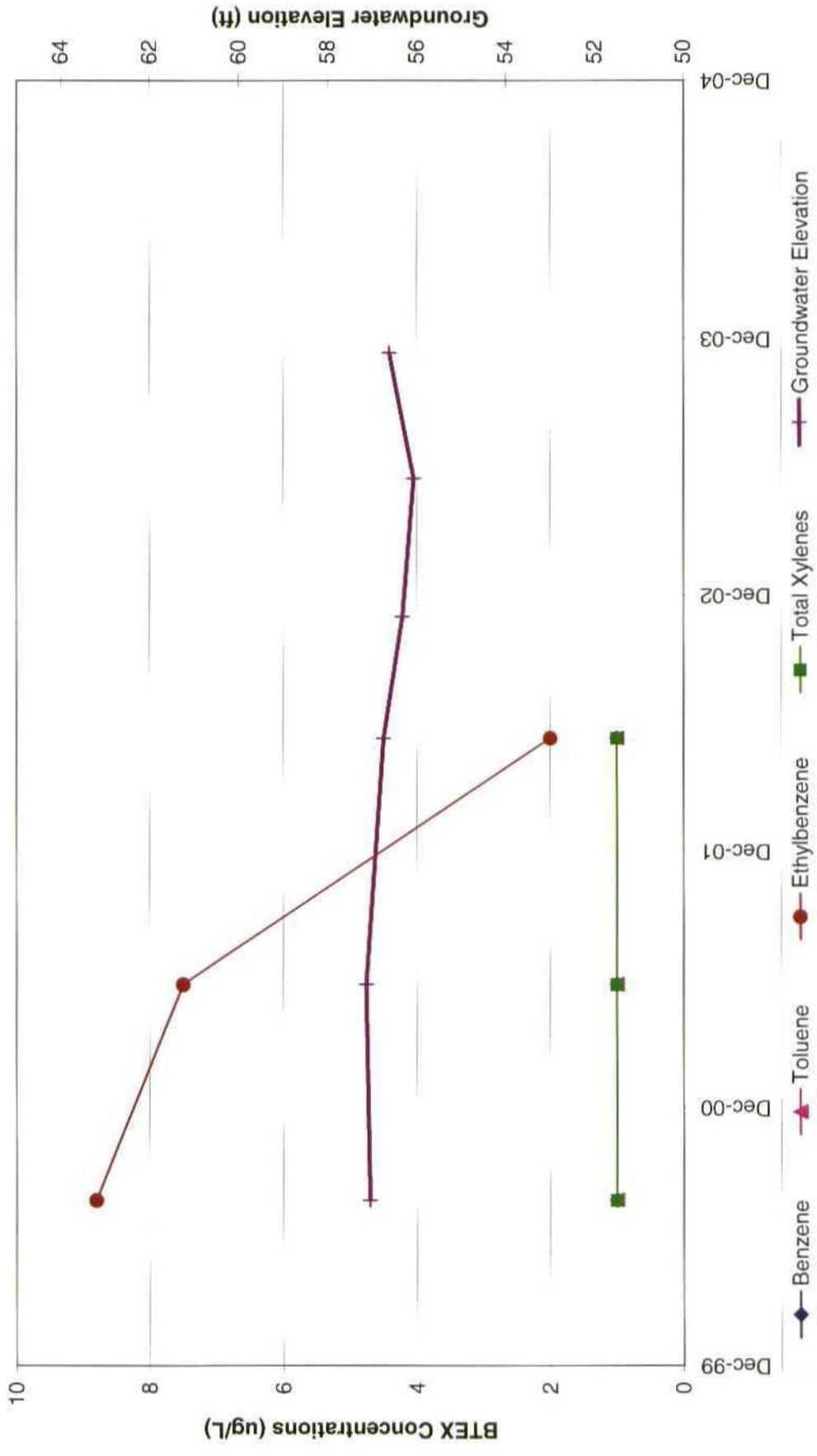
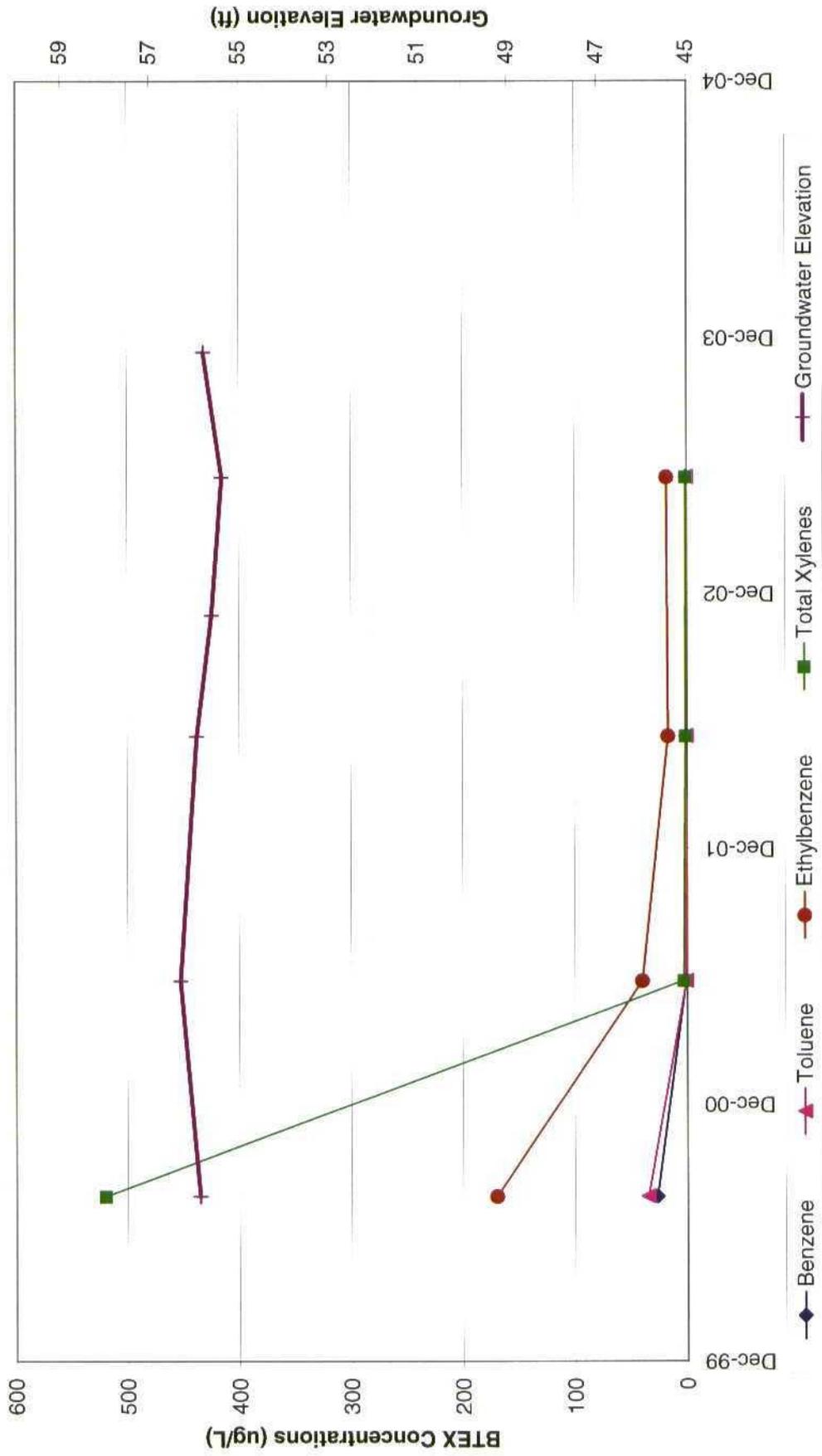


FIGURE 5
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
FOGELSON 4-1 COM #14
MW-3



ATTACHMENT 1
LABORATORY REPORTS

DATA VALIDATION WORKSHEET

(Page 2 of 2)

| | | | |
|---------------------------|---------------------|------------------------------|------------------------|
| Analytical Method: | SW-846 8021B (BTEX) | MWH Job Number: | EPC-SJRB (Groundwater) |
| Laboratory: | Accutest | Batch Identification: | T6104 |

| Validation Criteria | | | | | | | |
|--|------------------|----------------|--|--|--|--|--|
| Sample ID | Fogelson MW-1 | 111503TB 03 | | | | | |
| Lab ID | T6104-01 | T6104-02 | | | | | |
| Holding Time | A ¹ | A | | | | | |
| Analyte List | A | A | | | | | |
| Reporting Limits | A | A | | | | | |
| Surrogate Spike Recovery | A | A | | | | | |
| Trip Blank | A | A | | | | | |
| Equipment Rinseate Blanks | N/A | N/A | | | | | |
| Field Duplicate/Replicate | N/A | N/A | | | | | |
| Initial Calibration | N | N | | | | | |
| Initial Calibration Verification (ICV) | N | N | | | | | |
| Continuing Calibration Verification (CCV) | N | N | | | | | |
| Method Blank | A | A | | | | | |
| Laboratory Control Sample (LCS) | A | A | | | | | |
| Laboratory Control Sample Duplicate (LCSD) | N | N | | | | | |
| Matrix Spike/Matrix Spike Dup. (MS/MSD) | A | N/A | | | | | |
| Retention Time Window | N | N | | | | | |
| Injection Time(s) | N | N | | | | | |
| Hardcopy vs. Chain-of-Custody | A | A | | | | | |
| EDD vs. Hardcopy | N | N | | | | | |
| EDD vs. Chain of Custody | 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) Sample pH at time of analysis was greater than 2 which reduces the holding time from 14 days to 7. Sample analyzed 13 days after sample collection, exceeding holding time by 6 days, introducing a possible low bias. Qualify associated sample hits with "J" flags, indicating the data are estimated and possibly biased low. Qualify associated sample non-detects with "UJ" flags, indicating possible false negatives.



12/02/03

Technical Report for

Montgomery Watson

EPFS San Juan Basin Groundwater Site

D-MWH-04-01-03-MSG-01

Accutest Job Number: T6104

Report to:

Montgomery Watson

brian.buttars@us.mwhglobal.com

ATTN: Brian Buttars

Total number of pages in report: 12



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



Ron Martino
Laboratory Manager

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

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Sample Summary

Montgomery Watson

Job No: T6104

EPFS San Juan Basin Groundwater Site
Project No: D-MWH-04-01-03-MSG-01

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|-------|------------------|
| T6104-1 | 11/15/03 | 14:35 | 11/18/03 | AQ | Water | FOGELSON MW-1 |
| T6104-2 | 11/15/03 | 07:00 | 11/18/03 | AQ | Water | 111503TB03 |

Report of Analysis

| | | |
|-------------------|--------------------------------------|-------------------------|
| Client Sample ID: | FOGELSON MW-1 | |
| Lab Sample ID: | T6104-1 | Date Sampled: 11/15/03 |
| Matrix: | AQ - Water | Date Received: 11/18/03 |
| Method: | SW846 8021B | Percent Solids: n/a |
| Project: | EPFS San Juan Basin Groundwater Site | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 ^a | KK006192.D | 20 | 11/28/03 | BC | n/a | n/a | GKK332 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | Units | Q |
|-----------|-----------------|--------|----|-------|---|
| 71-43-2 | Benzene | 401 | 20 | ug/l | |
| 108-88-3 | Toluene | 308 | 20 | ug/l | |
| 100-41-4 | Ethylbenzene | 755 | 20 | ug/l | |
| 1330-20-7 | Xylenes (total) | 4700 | 60 | ug/l | |
| 95-47-6 | o-Xylene | 1080 | 20 | ug/l | |
| | m,p-Xylene | 3620 | 40 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 84% | | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 71-121% |

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

22
2

| | | | |
|-------------------|--------------------------------------|-----------------|----------|
| Client Sample ID: | 111503TB03 | Date Sampled: | 11/15/03 |
| Lab Sample ID: | T6104-2 | Date Received: | 11/18/03 |
| Matrix: | AQ - Water | Percent Solids: | n/a |
| Method: | SW846 8021B | | |
| Project: | EPFS San Juan Basin Groundwater Site | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | KK006189.D | 1 | 11/28/03 | BC | n/a | n/a | GKK332 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | Units | Q |
|-----------|-----------------|--------|-----|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 3.0 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 86% | | 71-121% |

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ACCUTEST

Teley

SAMPLE RECEIPT LOG

JOB #: DATE/TIME RECEIVED: 11/18/03 0915

CLIENT: MWH / EL PASO INITIALS: *MA*

- Condition/Variance (Circle "Y" for yes and "N" for no. If "N" is circled, see variance for explanation):
- N Sample received in undamaged condition.
 - Y N Sample received within temp. range.
 - Y N Sample received with proper pH.
 - Y N Sample volume sufficient for analysis.
 - N Chain of Custody matches sample IDs on containers.
 - N Custody seal received intact and tamper evident on cooler.
 - Y N Custody seal received intact and tamper evident on bottles.

| SAMPLE or FIELD ID | BOTTLE # | DATE SAMPLED | MATRIX | VOLUME | LOCATION | PRESERV. | PH |
|--------------------|----------|--------------|--------|--------|----------|-------------|----------------|
| 1 | 1 | 11/15/03 | WLW | VDA | UREF | 1,2,3,4,5,6 | U, <2, >12, NA |
| 2 | 1 | ↓ | ↓ | ↓ | ↓ | 1,2,3,4,5,6 | U, <2, >12, NA |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

LOCATION: WL-Waterin VR: Volatile Refrig. SUB: Subcontract EF: Encore Freezer
 PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NADH 6: Other

Comments:

4 of waters checked excluding volatiles
pH of soils N/A

Delivery method: Courier: *Fed Ex*
 Tracking#: _____

COOLER TEMP: *1.8°C*
 COOLER TEMP: _____

Method of sample disposal: (circle one) Accutest disposal Hold Return to Client

Form: SM012

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T6104
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin Groundwater Site

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-------------|----|----------|----|-----------|------------|------------------|
| GKK332-MB | KK006186.D1 | | 11/28/03 | BC | n/a | n/a | GKK332 |

4.1
4

The QC reported here applies to the following samples:

Method: SW846 8021B

T6104-1, T6104-2

| CAS No. | Compound | Result | RL | Units | Q |
|-----------|-----------------|--------|-----|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 3.0 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|----------|----------------------|-----|---------|
| 460-00-4 | 4-Bromofluorobenzene | 77% | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 77% | 71-121% |

Blank Spike Summary

Job Number: T6104
 Account: MWHSLCUT Montgomery Watson
 Project: EPFS San Juan Basin Groundwater Site

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|--------------|----|----------|----|-----------|------------|------------------|
| GKK332-BS | KK006185.D 1 | | 11/28/03 | BC | n/a | n/a | GKK332 |

4.2
4

The QC reported here applies to the following samples:

Method: SW846 8021B

T6104-1, T6104-2

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|-----------------|---------------|-------------|----------|--------|
| 71-43-2 | Benzene | 20 | 19.0 | 95 | 74-119 |
| 100-41-4 | Ethylbenzene | 20 | 19.5 | 98 | 82-115 |
| 108-88-3 | Toluene | 20 | 19.0 | 95 | 77-116 |
| 1330-20-7 | Xylenes (total) | 60 | 58.8 | 98 | 79-115 |
| 95-47-6 | o-Xylene | 20 | 19.6 | 98 | 78-114 |
| | m,p-Xylene | 40 | 39.2 | 98 | 79-116 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|----------|----------------------|-----|---------|
| 460-00-4 | 4-Bromofluorobenzene | 97% | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 90% | 71-121% |

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T6104
 Account: MWHSLCUT Montgomery Watson
 Project: EPFS San Juan Basin Groundwater Site

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|------------|----|----------|----|-----------|------------|------------------|
| T6104-1MS ^a | KK006193.D | 20 | 11/28/03 | BC | n/a | n/a | GKK332 |
| T6104-1MSD ^a | KK006194.D | 20 | 11/28/03 | BC | n/a | n/a | GKK332 |
| T6104-1 ^a | KK006192.D | 20 | 11/28/03 | BC | n/a | n/a | GKK332 |

The QC reported here applies to the following samples:

Method: SW846 8021B

T6104-1, T6104-2

| CAS No. | Compound | T6104-1 ug/l | Spike Q ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|-----------|-----------------|-----------------|--------------------|------------|---------|-------------|----------|-----|-------------------|
| 71-43-2 | Benzene | 401 | 400 | 764 | 91 | 769 | 92 | 1 | 64-124/16 |
| 100-41-4 | Ethylbenzene | 755 | 400 | 1110 | 89 | 1110 | 89 | 0 | 64-123/14 |
| 108-88-3 | Toluene | 308 | 400 | 668 | 90 | 684 | 94 | 2 | 64-120/13 |
| 1330-20-7 | Xylenes (total) | 4700 | 1200 | 5750 | 88 | 5680 | 82 | 1 | 66-118/18 |
| 95-47-6 | o-Xylene | 1080 | 400 | 1430 | 88 | 1420 | 85 | 1 | 65-119/20 |
| | m,p-Xylene | 3620 | 800 | 4320 | 88 | 4260 | 80 | 1 | 66-120/14 |

| CAS No. | Surrogate Recoveries | MS | MSD | T6104-1 | Limits |
|----------|----------------------|-----|-----|---------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 84% | 84% | 84% | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | 97% | 94% | 71-121% |

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

DATA VALIDATION WORKSHEET
(Page 2 of 2)

| | |
|--|--|
| Analytical Method: <u>SW-846 8021B (BTEX)</u> | MWH Job Number: <u>EPC-SJRB (Groundwater)</u> |
| Laboratory: <u>Accutest</u> | Batch Identification: <u>T4390</u> |

| Validation Criteria | | | | | | | |
|--|----------------|------------------|------------------|--|--|--|--|
| Sample ID | 210503TB 02 | Fogelson MW-1 | Fogelson MW-3 | | | | |
| Lab ID | T4390-01 | T4390-02 | T4390-03 | | | | |
| Holding Time | A | A | A | | | | |
| Analyte List | A | A | A | | | | |
| Reporting Limits | A | A | A | | | | |
| Trip Blank | A | A | A | | | | |
| Equipment Rinseate Blanks | N/A | N/A | N/A | | | | |
| Field Duplicate/Replicate | N/A | N/A | N/A | | | | |
| Surrogate Spike Recovery | A | A | A | | | | |
| Initial Calibration | N | N | N | | | | |
| Initial Calibration Verification (ICV) | N | N | N | | | | |
| Continuing Calibration Verification (CCV) | N | N | N | | | | |
| Laboratory Control Sample (LCS) | A | A | A | | | | |
| Laboratory Control Sample Duplicate (LCSD) | N | N | N | | | | |
| Method Blank | A | A | A | | | | |
| Matrix Spike/Matrix Spike Dup. (MS/MSD) | N/A | N/A | A ^{1,2} | | | | |
| Retention Time Window | N | N | N | | | | |
| Injection Time(s) | N | N | N | | | | |
| Hardcopy vs. Chain-of-Custody | A | A | A | | | | |
| EDD vs. Hardcopy | N | N | N | | | | |
| EDD vs. Chain of Custody | 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) Matrix spike (MS) percent recovery below acceptance criteria @ 60% (64-123) indicating a possible low bias, Matrix spike duplicate (MSD) percent recovery well within acceptance criteria @ 90% (64-123), MS percent recovery considered anomalous, no data qualified.
- 2) The following analytes had MS/MSD relative percent differences (RPDs) outside acceptance criteria:
 - a) Benzene @ 21% (16), analyte not detected in parent sample, no data qualified.
 - b) Ethylbenzen @ 18% (14), a large RPD is to be expected when either the MS or MSD result is considered anomalous and the other is well within acceptance criteria, no data qualified.
 - c) Toluene @ 20% (13), analyte not detected in parent sample, no data qualified.
 - d) Xylenes (total) @ 21% (18), analyte not detected in parent sample, no data qualified.
 - e) o-Xylene @ 21% (20), analyte not detected in parent sample, no data qualified.
 - f) m,p-Xylene @ 21% (14), analyte not detected in parent sample, no data qualified.



Gulf Coast

ACCUTEST.

Laboratories

05/30/03

Technical Report for

Montgomery Watson

EPFS San Juan Basin GS

San Juan Basin

Accutest Job Number: T4390

Report to:

El Paso

lynn.benally@elpaso.com

ATTN: Lynn Benally

Total number of pages in report: 9



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Ron Martino
Laboratory Manager

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

Montgomery Watson

Job No: T4390

EPFS San Juan Basin GS
Project No: San Juan Basin

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|-----------|----------|-------------|------------------|------------------|
| T4390-1 | 05/21/03 | 07:00 MJN | 05/23/03 | AQ | Trip Blank Water | 210503TB02 |
| T4390-2 | 05/21/03 | 14:30 MJN | 05/23/03 | AQ | Water | FOGELSON MW-1 |
| T4390-3 | 05/21/03 | 15:42 MJN | 05/23/03 | AQ | Water | FOGELSON MW-3 |

Report of Analysis

| | | | |
|-------------------|------------------------|-----------------|----------|
| Client Sample ID: | 210503TB02 | Date Sampled: | 05/21/03 |
| Lab Sample ID: | T4390-1 | Date Received: | 05/23/03 |
| Matrix: | AQ - Trip Blank Water | Percent Solids: | n/a |
| Method: | SW846 8021B | | |
| Project: | EPFS San Juan Basin GS | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | KK005178.D | 1 | 05/28/03 | JH | n/a | n/a | GKK272 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | Units | Q |
|-----------|-----------------|--------|-----|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 3.0 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 84% | | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 83% | | 71-121% |

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|------------------------|-------------------------|
| Client Sample ID: | FOGELSON MW-1 | |
| Lab Sample ID: | T4390-2 | Date Sampled: 05/21/03 |
| Matrix: | AQ - Water | Date Received: 05/23/03 |
| Method: | SW846 8021B | Percent Solids: n/a |
| Project: | EPFS San Juan Basin GS | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | KK005181.D | 25 | 05/28/03 | JH | n/a | n/a | GKK272 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | Units | Q |
|-----------|-----------------|--------|----|-------|---|
| 71-43-2 | Benzene | 339 | 25 | ug/l | |
| 108-88-3 | Toluene | 296 | 25 | ug/l | |
| 100-41-4 | Ethylbenzene | 723 | 25 | ug/l | |
| 1330-20-7 | Xylenes (total) | 4730 | 75 | ug/l | |
| 95-47-6 | o-Xylene | 979 | 25 | ug/l | |
| | m,p-Xylene | 3750 | 50 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 81% | | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 71-121% |

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---------------------------------|-------------------------|
| Client Sample ID: FOGELSON MW-3 | Date Sampled: 05/21/03 |
| Lab Sample ID: T4390-3 | Date Received: 05/23/03 |
| Matrix: AQ - Water | Percent Solids: n/a |
| Method: SW846 8021B | |
| Project: EPFS San Juan Basin GS | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | KK005191.D | 1 | 05/28/03 | JH | n/a | n/a | GKK272 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | Units | Q |
|-----------|-----------------|--------|-----|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | 18.2 | 1.0 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 3.0 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 72% | | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 74% | | 71-121% |

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Blank Spike Summary

Job Number: T4390
Account: MWHSLCUT Montgomery Watson
Project: EPFS San Juan Basin GS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|--------------|----|----------|----|-----------|------------|------------------|
| GKK272-BS | KK005176.D 1 | | 05/28/03 | JH | n/a | n/a | GKK272 |

The QC reported here applies to the following samples:

Method: SW846 8021B

T4390-1, T4390-2, T4390-3

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|-----------------|---------------|-------------|----------|--------|
| 71-43-2 | Benzene | 20 | 17.4 | 87 | 74-119 |
| 100-41-4 | Ethylbenzene | 20 | 17.8 | 89 | 82-115 |
| 108-88-3 | Toluene | 20 | 17.7 | 89 | 77-116 |
| 1330-20-7 | Xylenes (total) | 60 | 54.3 | 91 | 79-115 |
| 95-47-6 | o-Xylene | 20 | 17.7 | 89 | 78-114 |
| | m,p-Xylene | 40 | 36.6 | 92 | 79-116 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|----------|----------------------|-----|---------|
| 460-00-4 | 4-Bromofluorobenzene | 86% | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 85% | 71-121% |

Method Blank Summary

Job Number: T4390
Account: MWHS LCUT Montgomery Watson
Project: EPFS San Juan Basin GS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-------------|----|----------|----|-----------|------------|------------------|
| GKK272-MB | KK005177.D1 | | 05/28/03 | JH | n/a | n/a | GKK272 |

The QC reported here applies to the following samples:

Method: SW846 8021B

T4390-1, T4390-2, T4390-3

| CAS No. | Compound | Result | RL | Units | Q |
|-----------|-----------------|--------|-----|-------|---|
| 71-43-2 | Benzene | ND | 1.0 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 3.0 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|----------|----------------------|-----|---------|
| 460-00-4 | 4-Bromofluorobenzene | 86% | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 85% | 71-121% |

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T4390
 Account: MWHSLCUT Montgomery Watson
 Project: EPFS San Juan Basin GS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|--------------|----|----------|----|-----------|------------|------------------|
| T4390-3MS | KK005192.D 1 | | 05/28/03 | JH | n/a | n/a | GKK272 |
| T4390-3MSD ^a | KK005193.D 1 | | 05/28/03 | JH | n/a | n/a | GKK272 |
| T4390-3 | KK005191.D 1 | | 05/28/03 | JH | n/a | n/a | GKK272 |

The QC reported here applies to the following samples:

Method: SW846 8021B

T4390-1, T4390-2, T4390-3

| CAS No. | Compound | T4390-3 ug/l | Spike Q ug/l | MS ug/l | MS % | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|-----------|-----------------|-----------------|--------------------|------------|---------|-------------|----------|-----|-------------------|
| 71-43-2 | Benzene | ND | 20 | 13.7 | 69 | 17.0 | 85 | 21* | 64-124/16 |
| 100-41-4 | Ethylbenzene | 18.2 | 20 | 30.1 | 60* | 36.2 | 90 | 18* | 64-123/14 |
| 108-88-3 | Toluene | ND | 20 | 13.7 | 69 | 16.8 | 84 | 20* | 64-120/13 |
| 1330-20-7 | Xylenes (total) | ND | 60 | 42.3 | 71 | 52.0 | 87 | 21* | 66-118/18 |
| 95-47-6 | o-Xylene | ND | 20 | 13.9 | 70 | 17.1 | 86 | 21* | 65-119/20 |
| | m,p-Xylene | ND | 40 | 28.4 | 71 | 34.9 | 87 | 21* | 66-120/14 |

| CAS No. | Surrogate Recoveries | MS | MSD | T4390-3 | Limits |
|----------|----------------------|-------------------|-----|---------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 68% | 80% | 72% | 64-121% |
| 98-08-8 | aaa-Trifluorotoluene | 68%* ^b | 81% | 74% | 71-121% |

(a) High RPD due to low spike recoveries of the MSD.
 (b) Outside control limits due to matrix interference.

ATTACHMENT 2
FIELD DOCUMENTATION

PRODUCT RECOVERY/WATER LEVEL DATA

Martin J. Nee
 PO Box 3861
 Farmington, NM 87499-3861
 (505)334-2791 (505)320-9675cell

Project Name San Juan Basin Ground Water **Project No.** 30001.0
Project Manager MJN
Client Company MWH **Date** 11-14&15-03
Site Name Fogelson

| Well | Time | Depth to Product (ft) | Depth to Water (ft) | Comment | |
|------------|------|-----------------------|---------------------|-----------------------|---|
| MW-1 11/14 | 1245 | - | | Removed 7 ORC Socks | |
| MW-1 11/15 | 1354 | - | 41.0 | - | - |
| MW-2 | | - | 38.695 | - | - |
| MW-3 | | | 41.3 | | |
| MW-1 | | | | Installed 7 ORC socks | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments

Signature: Martin J. Nee Date: November 15, 2003

WELL DEVELOPMENT AND SAMPLING LOG

Project No.: 30001.0 Project Name: SJB Groundwater Client: MWH/EL Paso
 Location: Fogelson Well No: MW-1 Development Sampling
 Project Manager MJN Date 11/15/03 Start Time 1354 Weather Sunny 60s
 Depth to Water 41.00 Depth to Product na Product Thickness na Measuring Point TOC
 Water Column Height 6.70 Well Dia. 4"

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 stabilization of Indicator Parameters Other or bail dry

| Gal/ft x ft of water | Water Volume in Well | | Gal/oz to be removed |
|----------------------|----------------------|--------|----------------------|
| | Gallons | Ounces | |
| 6.70 x 0.65 | 4.35 x 3 | | 13.065 |

| Time (military) | pH (su) | SC (umhos/cm) | Temp (°F) | ORP (millivolts) | D.O. (mg/L) | Turbidity (NTU) | Vol Evac. (gallons) | Comments/ Flow rate |
|-----------------|-------------|---------------|-------------|------------------|-------------|-----------------|---------------------|----------------------|
| <u>1356</u> | <u>7.45</u> | <u>9740</u> | <u>59.2</u> | | | | <u>1</u> | <u>Clear HC Odor</u> |
| | <u>7.43</u> | <u>10600</u> | <u>60.4</u> | | | | <u>2</u> | <u>Clear HC Odor</u> |
| | <u>7.39</u> | <u>10220</u> | <u>60.4</u> | | | | <u>3</u> | <u>Clear HC Odor</u> |
| | <u>7.40</u> | <u>10530</u> | <u>59.9</u> | | | | <u>5</u> | <u>Clear HC Odor</u> |
| | <u>7.39</u> | <u>10510</u> | <u>59.7</u> | | | | <u>10</u> | <u>Clear HC Odor</u> |
| | <u>7.38</u> | <u>10590</u> | <u>59.5</u> | | | | <u>12</u> | <u>Clear HC Odor</u> |
| <u>1429</u> | <u>7.39</u> | <u>10570</u> | <u>59.6</u> | | <u>0.81</u> | | <u>13.5</u> | <u>Clear HC Odor</u> |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Final: Time | pH | SC | Temp | Eh-ORP | D.O. | Turbidity | Ferrous Iron | Vol Evac. | Comments/Flow Rate |
|-------------|-------------|--------------|-------------|--------|-------------|-----------|--------------|-------------|----------------------|
| <u>1429</u> | <u>7.39</u> | <u>10570</u> | <u>59.6</u> | | <u>0.81</u> | | | <u>13.5</u> | <u>Clear HC Odor</u> |

COMMENTS:

INSTRUMENTATION: pH Meter _____ Temperature Meter
 DO Monitor _____ Other _____
 Conductivity Meter _____

Water Disposal Kutz Sample ID Fogelson MW-1 Sample Time 1435

TEX VOCs Alkalinity TDS Cations Anions Nitrate Nitrite Ammonia TKN NMWQCC Metals Total Phosphorus

MS/MSD _____ BD _____ BD Name/Time _____ TB 151103tb03

WELL DEVELOPMENT AND SAMPLING LOG

Project No: 30001.0 Project Name: Bentley Basin Client: MWH
 Location: Foxson Well No: MW-3 Development Sampling
 Project Manager MJK Date 5-21-03 Start Time 1504 Weather Sunny 80s
 Depth to Water 41.7' Depth to Product — Product Thickness — Measuring Point TC
 Water Column Height 1042 Well Dia. 2"

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 Stabilization of Indicator Parameters Other on bail day

| Gal/ft x ft of water | Water Volume In Well | | Gal/oz to be removed |
|----------------------|----------------------|--------|----------------------|
| | Gallons | Ounces | |
| <u>1042 x .16</u> | <u>1.6673</u> | | <u>5</u> |

| Time (military) | pH | SC (umhos/cm) | Temp (°C) | Eh-ORP (millivolts) | D.O. (mg/L) | Turbidity (NTU) | Vol Evac. (gal.) | Comments/Flow rate |
|-----------------|-------------|---------------|-------------|---------------------|-------------|-----------------|------------------|----------------------------|
| <u>1506</u> | <u>6.70</u> | <u>10590</u> | <u>21.6</u> | | | | <u>.25</u> | |
| | <u>6.03</u> | <u>10020</u> | <u>20.6</u> | | | | <u>.5</u> | |
| | <u>6.66</u> | <u>9820</u> | <u>20.6</u> | | | | <u>.75</u> | <u>milky/very silty</u> |
| | <u>6.09</u> | <u>9590</u> | <u>20.6</u> | | | | <u>1</u> | |
| | <u>6.74</u> | <u>10630</u> | <u>20.6</u> | | | | <u>2</u> | |
| | <u>6.73</u> | <u>9780</u> | <u>20.4</u> | | | | <u>3</u> | |
| | <u>7.17</u> | <u>9890</u> | <u>20.6</u> | | | | <u>4</u> | <u>well has bailed day</u> |
| <u>1542</u> | <u>7.17</u> | <u>10280</u> | <u>22.6</u> | | | | <u>4.1</u> | |
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Final:

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|-------------|-------------|--------------|-------------|--------|------|-----------|--------------|------------|--------------------|
| Time | pH | SC | Temp | Eh-ORP | D.O. | Turbidity | Ferrous Iron | Vol Evac. | Comments/Flow rate |
| <u>1542</u> | <u>7.17</u> | <u>10280</u> | <u>22.6</u> | | | | | <u>4.1</u> | |

COMMENTS: _____

INSTRUMENTATION: pH Meter _____ Temperature Meter _____
 DO Monitor _____ Other _____
 Conductivity Meter _____

Water Disposal KUTZ
 Sample ID Foxson MW-3 Sample Time 1542 BTEX VOCs Alkalinity
 TDS Cations Anions Nitrate Nitrite Ammonia TKN NM WQCC Metals
 Total Phosphorus _____
 MS/MSD _____ BD _____ BD Name/Time _____ TB 210563T0002

PRODUCT RECOVERY/WATER LEVEL DATA

Martin J. Nee
PO Box 3861
Farmington, NM 87499-3861
(505)334-2791 (505)320-9675cell

| | | | |
|------------------------|------------------------------------|--------------------|----------------|
| Project Name | <u>San Juan Basin Ground Water</u> | Project No. | <u>30001.0</u> |
| Project Manager | <u>MJN</u> | | |
| Client Company | <u>MWH</u> | Date | <u>5-21-03</u> |
| Site Name | <u>Fogelson</u> | | |

| Well | Time | Depth to Product (ft) | Depth to Water (ft) | Product Thickness (ft) | Volume Removed |
|------|------|-----------------------|---------------------|------------------------|----------------|
| MW-1 | 1350 | - | 41.57 | - | - |
| MW-2 | | - | 39.24 | - | - |
| MW-3 | | - | 41.71 | - | - |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments

Signature: Martin J. Nee Date: May 21, 2003