## 3R - <u>2</u>39

### REPORTS

# DATE:

### 3R239 elpaso

#### Certified Mail: #7002 0510 0000 0307 7497

February 26, 2004

Mr. William C. Olson New Mexico Oil Conservation Division 1220 St. Francis Dr. Santa Fe, NM 87504 MAR 03 2004

RECEIVED

#### 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

El Paso Field Services 614 Reilly Ave. Farmington, NM 87401

#### 2003 ANNUAL GROUNDWATER REPORT NON-FEDERAL SITES VOLUME II

EL PASO FIELD SERVICES

#### TABLE OF CONTENTS

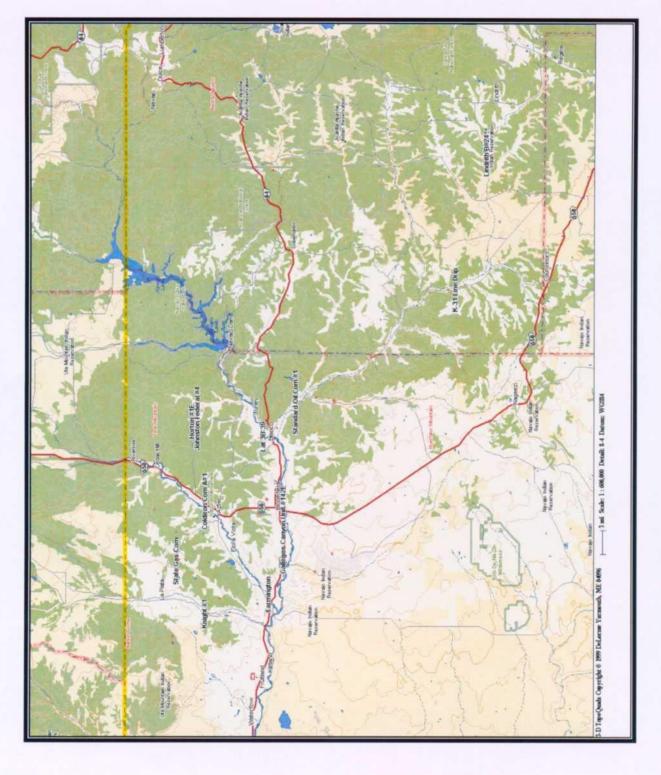
METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
71669	State Gas Com N #1	31N	12W	16	н
70194	Johnston Fed #4	31N	09W	33	н
93388	Horton #1E	31N	09W	28	Н
72556	Knight #1	30N	13W	5	A
73551	Coldiron A #1	30N	11W	2	к
03906	GCU Com A #142E	29N	12W	25	G
70445	Standard Oil Com #1	29N	09W	36	N
LD087	K-31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







Non - Federal Groundwater Site Map



#### LIST OF ACRONYMS

В	benzene
btoc	below top of casing
Е	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
Т	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
Х	total xylenes

2003 Annual Groundwater Report El Paso Field Services March 2003

#### EPFS GROUNDWATER SITES 2003 ANNUAL GROUNDWATER REPORT

#### State Gas Com N #1 Meter Code: 71669

#### SITE DETAILS

Legal Description:	То	wn: 31N Rai	nge: 12W	Sec: 16	Unit: H
NMOCD Haz Ranki	ing: 30	Land Type: State	e Operator:	Amoco Production	Company
PREVIOUS ACT	IVITIES				
Site Assessment:	3/94	Excavation:	5/94 (80 cy)	Soil Boring:	10/95
Monitor Well:	10/95	Geoprobe:	NA	Additional MWs:	12/01
Downgradient MWs:	11/95	Replace MW:	NA	Quarterly Initiated:	NA
ORC Nutrient Injection:	NA	Re-Excavation:	NA	PSH Removal Initiated:	NA
Annual Initiated:	NA	Quarterly Resumed:	NA		

#### SUMMARY OF 2003 ACTIVITIES

- MW-1: Quarterly free-product recovery and/or water level monitoring were performed during 2003.
- MW-2: Quarterly free-product recovery and/or water level monitoring were performed during 2003. MW-2 was redeveloped in June 2003 in an attempt to enhance free-product recovery.
- MW-3: Quarterly free-product recovery and water level monitoring were performed during 2003. MW-3 was redeveloped in June 2003 in an attempt to enhance free-product recovery.
- MW-4: Annual groundwater sampling (September) and quarterly water level monitoring were performed during 2003.
- MW-5: Annual groundwater sampling (September) and quarterly water level monitoring were performed during 2003.
- **MW-6:** Quarterly free-product recovery and water level monitoring were performed during 2003. MW-6 was redeveloped in June 2003 in an attempt to enhance free-product recovery.

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

#### EPFS GROUNDWATER SITES 2003 ANNUAL GROUNDWATER REPORT

State Gas Com N #1 Meter Code: 71669

#### SITE MAPS

Site maps (June and September) are attached in 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 8.
- Free-product recovery data from 2003 are summarized in Table 2, and historic data are presented graphically in Figures 9 through 12.
- Laboratory reports are presented in Attachment 1.
- Field documentation is presented in Attachment 2.

#### GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2003.

#### 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 water level and analytical data collected during 2003.

#### CONCLUSIONS

- The groundwater flow direction at this site trends toward the southeast.
- Free-product recovery efforts resulted in removal of approximately 0.01 gallons of free-phase hydrocarbons during 2003 bringing the cumulative total volume removed to 79.61 gallons.
- Free-product recovery efforts at MW-2 resulted in removal of approximately 0.02 gallons of free-phase hydrocarbons during 2003 bringing the cumulative total recovered to date to 133.19 gallons.
- Free-product recovery efforts at MW-3 resulted in removal of approximately 0.16 gallons of free-phase hydrocarbons during 2003 bringing the cumulative total volume removed to 61.62 gallons.

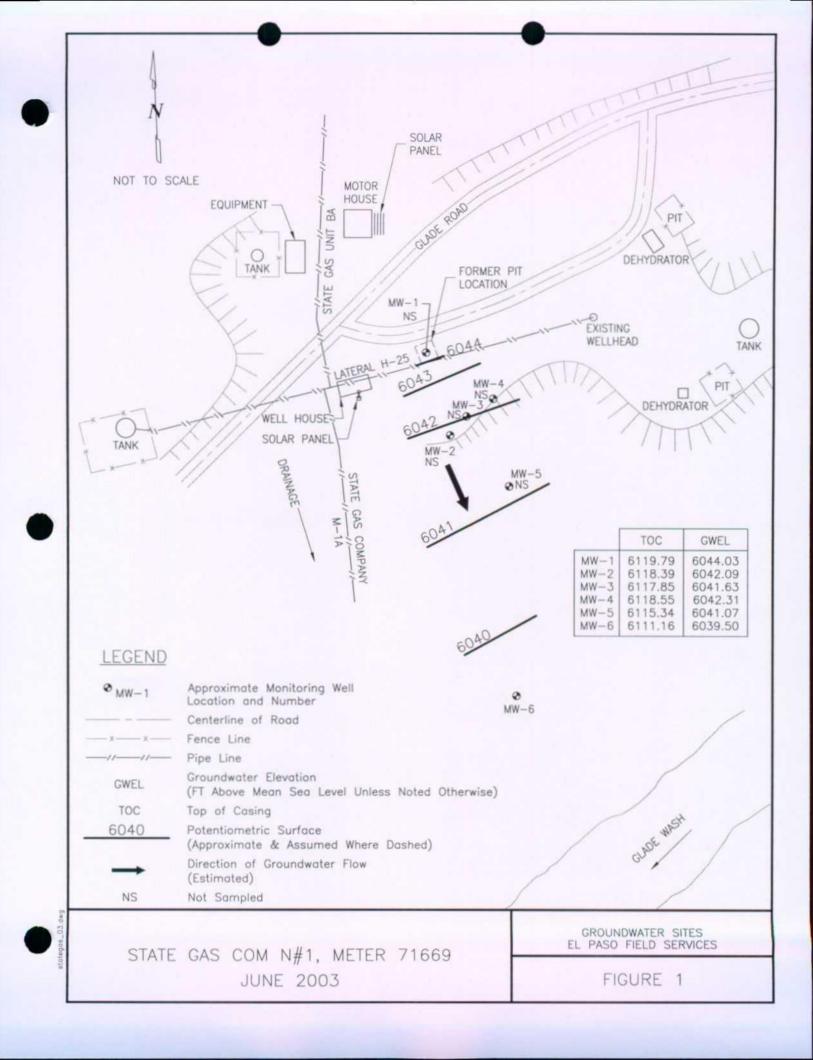
#### EPFS GROUNDWATER SITES 2003 ANNUAL GROUNDWATER REPORT

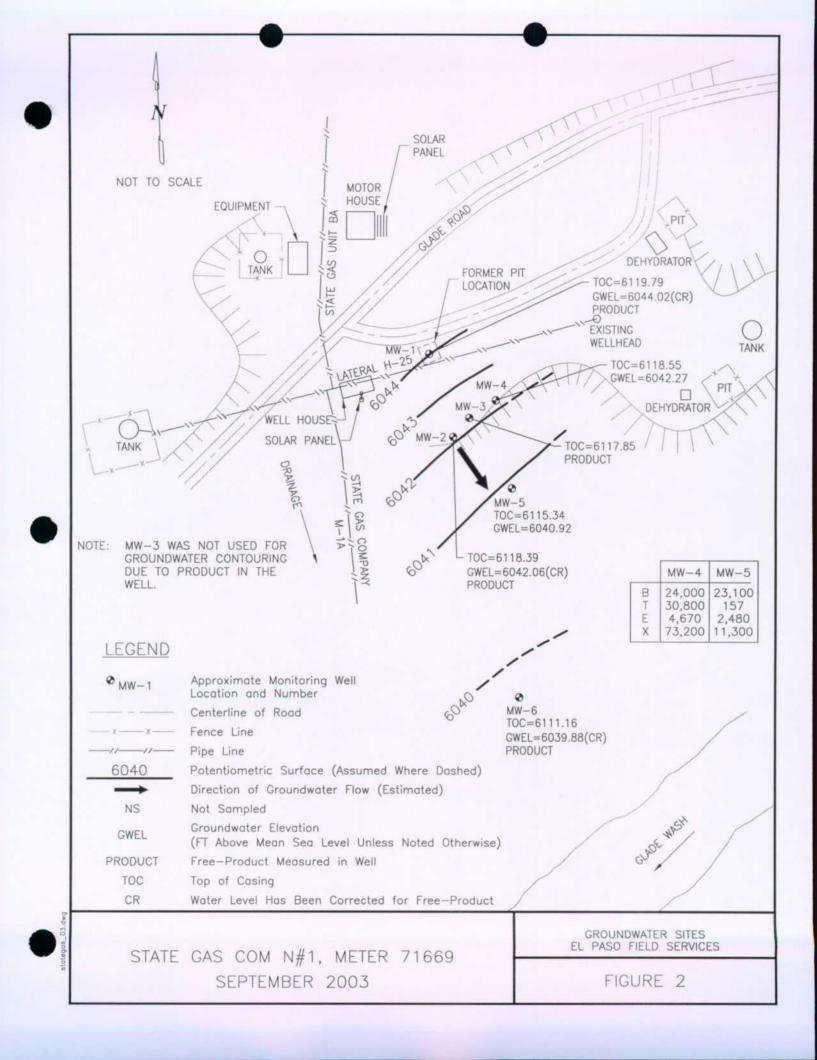
State Gas Com N #1 Meter Code: 71669

- Laboratory results from the annual groundwater sample collected at MW-4 indicate that BTEX concentrations remain elevated at this well. Benzene results for the sample collected in September indicated a concentration of 24,000 µg/L.
- Laboratory results from the annual groundwater sample collected at MW-5 indicate that BTEX concentrations remain elevated at this well. Benzene results for the sample collected in September indicate a concentration of 23,100 µg/L.
- Free-product recovery efforts at MW-6 resulted in removal of approximately 0.63 gallons of free-phase hydrocarbons during 2003 bringing the cumulative total volume removed to 3.35 gallons.

#### RECOMMENDATIONS

- EPFS recommends to continue free-product recovery efforts at MW-1, MW-2, MW-3 and MW-6. EPFS will evaluate passive free-product removal methodologies (i.e., hand bailing, passive skimmers, or hydrocarbon-absorbent material socks) and frequencies for most efficient free-product removal from these wells during 2004.
- EPFS recommends annual groundwater sampling at wells MW-4 and MW-5.
- · EPFS recommends semi-annual water level measurements at all wells.







### TABLE 1

# SUMMARY OF BTEX COMPOUNDS IN 2003 GROUNDWATER SAMPLES STATE GAS COM N#1 (METER #71669)

Cita Nama	Monitoning Wall	Counds Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Depth to Water
SHE MAILIC	MOINOFING WCII	Sample Date	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ft btoc)
State Gas Com N #1	MW-4	9/14/2003	24,000	30,800	4,670	73,200	76.28
State Gas Com N #1	MW-5	9/14/2003	23,100	157	2,480	11,300	74.42



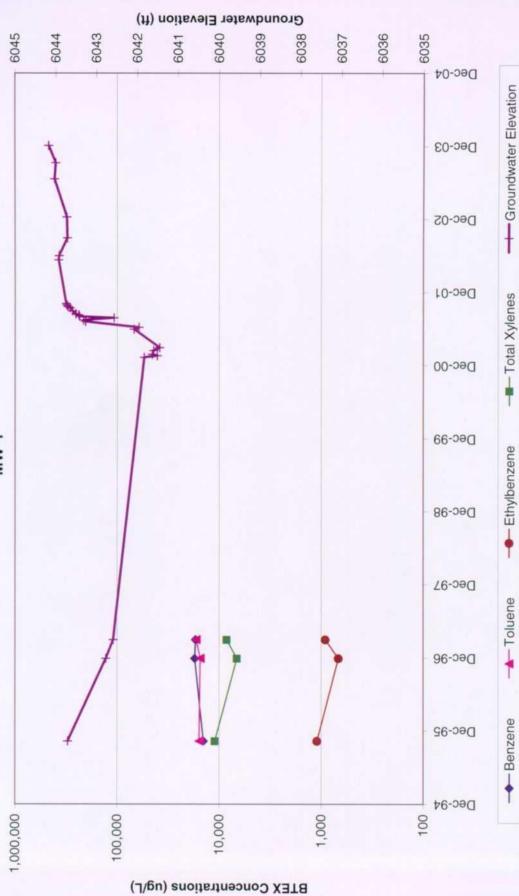
## TABLE 2

# SUMMARY OF FREE-PRODUCT REMOVAL DURING 2003 STATE GAS COM N#1 (METER #71669)

Site Name	Monitoring Well	Removal Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Volume of Product Removed (gallons)	Cummulative Volume of Product Removed (gallons)
State Gas Com N #1	I-WM	3/20/03	NA	76.025	0.00	0.00	79.60
State Gas Com N #1	MW-1	6/26/03	NA	75.76	00.00	0.00	79.60
State Gas Com N #1	MW-1	9/14/03	75.77	75.79	0.02	0.01	79.61
State Gas Com N #1	I-WM	12/9/03	NA	75.62	0.00	0.00	79.61
State Gas Com N #1	MW-2	3/20/03	NA	76.27	0.00	0.00	133.17
State Gas Com N #1	MW-2	6/26/03	76.33	76.35	0.02	0.01	133.18
State Gas Com N #1	MW-2	9/14/03	76.33	76.35	0.02	0.01	133.19
State Gas Com N #1	MW-2	12/9/03	NA	76.22	0.00	0.00	133.19
State Gas Com N #1	MW-3	3/20/03	76.28	76.32	0.04	0.05	61.51
State Gas Com N #1	MW-3	6/26/03	76.19	76.22	0.03	0.01	61.52
State Gas Com N #1	MW-3	9/14/03	76.306	76.36	0.054	0.04	61.56
State Gas Com N #1	MW-3	12/9/03	76.15	76.22	0.07	0.06	61.62
State Gas Com N #1	9-WM	3/20/03	70.90	71.43	0.53	0.33	3.05
State Gas Com N #1	9-MW	6/26/03	71.035	71.66	0.625	0.10	3.15
State Gas Com N #1	9-MW	9/14/03	71.04	72.25	1.21	0.20	3.35
State Gas Com N #1	MW-6	12/9/03	NA	74.32	0.00	0.00	3.35

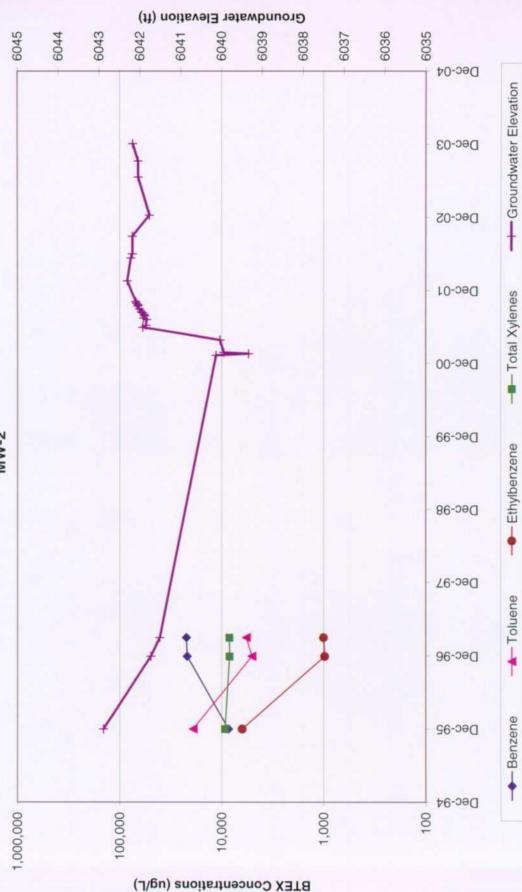










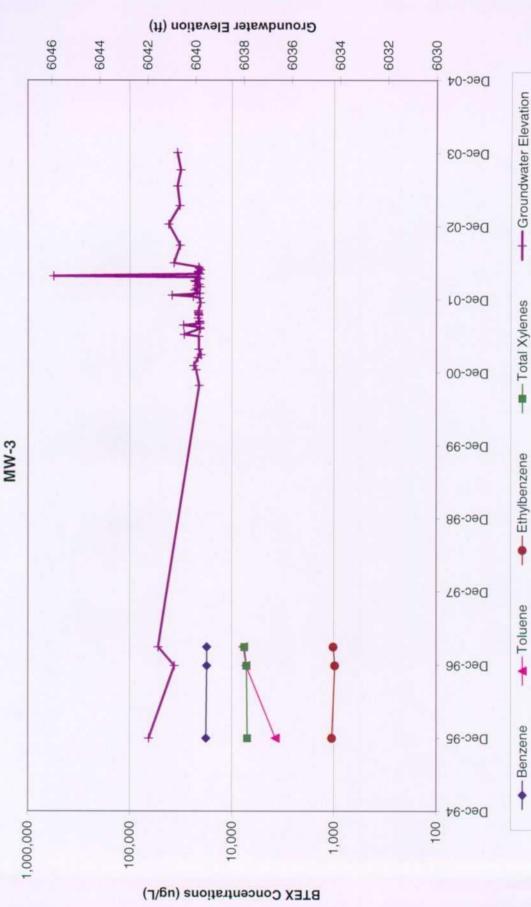


-----Benzene

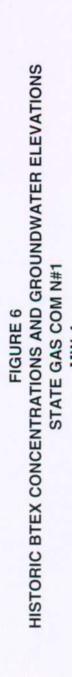
-----Groundwater Elevation









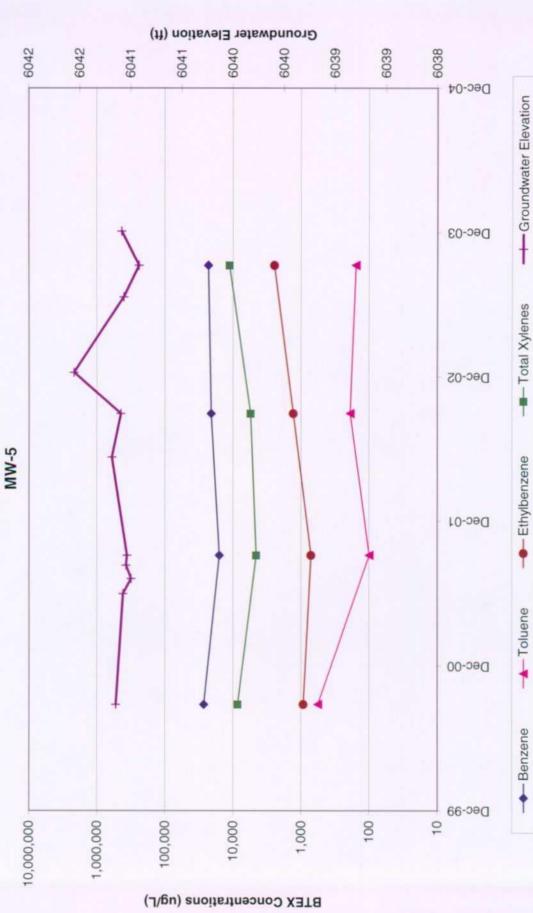




-----Benzene







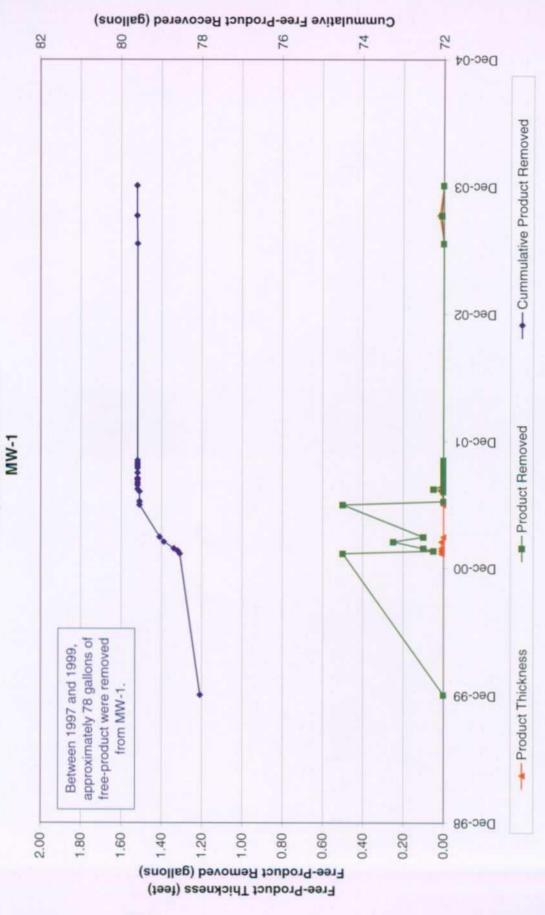








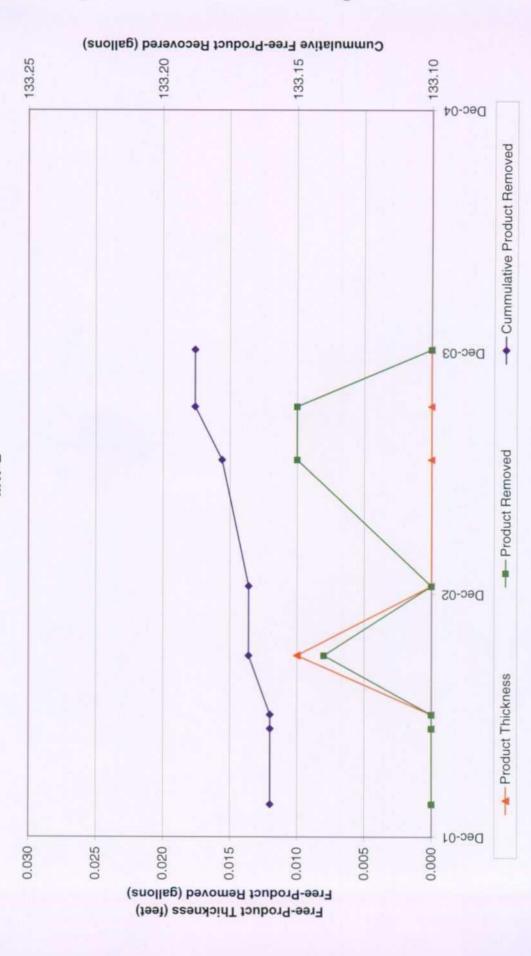
## FIGURE 9 HISTORIC FREE-PRODUCT RECOVERY STATE GAS COM N#1



2003 State Gas Com.xls, StGasCom PR1

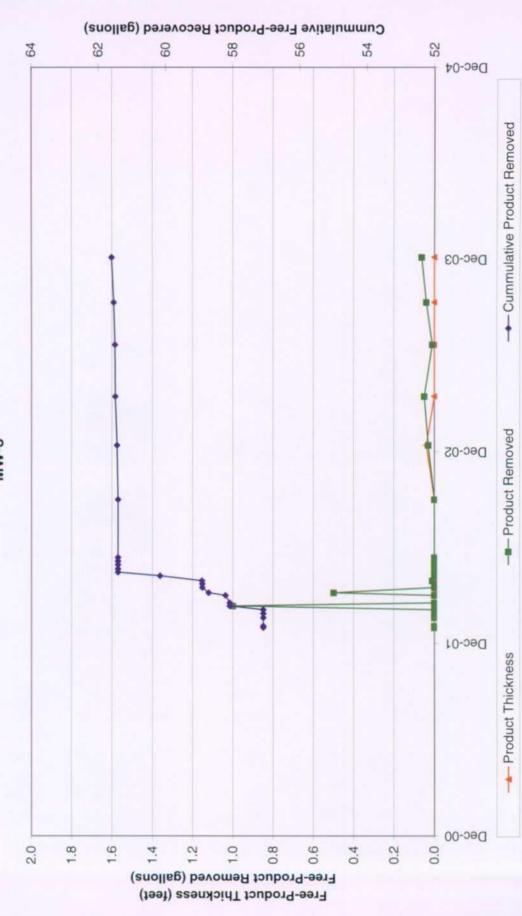




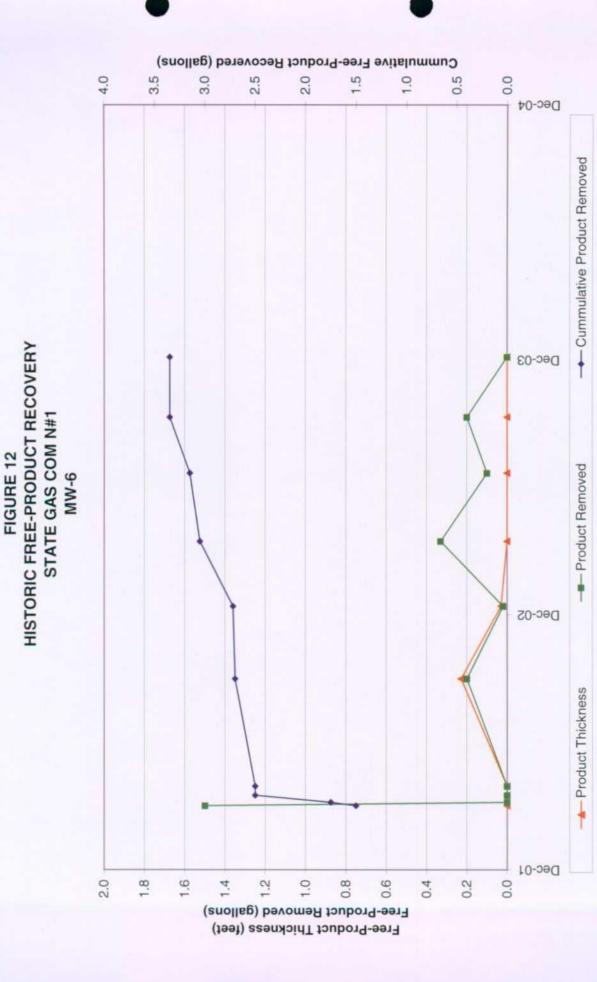












#### **ATTACHMENT 1**

#### LABORATORY REPORTS

DATA VALIDATION WORKSHEET

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			(Page 1 of	3)			
Analy	ytical Method/An	alytes: S	W-846 8021B (BTE	X) San	nple Colle	ction Date(s):	09/14/03
	Labor	·otory•	Accutest		MWH	Job Number:	EDC SIDD
	Labor	atory.	Accutist			Job Indiliber.	(Groundwater)
	Batch Identifi	cation:	T5377			- Matrix:	Water
	MS/MSD Pare	nt(s) <sup>(a)</sup> :	None	Fie	eld Replic	ate Parent(s): _	None
Vali	idation Comp	olete: <u> </u>	angene Zasta	f as (D	9-3 ate/Signature	0-03	
Foot	S'4 ID	Gammala H		Hits	Orala	C	·
Notes	Site ID State Gas Com.	Sample II MW-4	D Lab. ID T5377-01	<u>(Y/N)</u> Y	Quals.		ments
1,2,3	State Gas Com.	101 00 -4	15577-01	1	J	Benzene @ 24 Toluene @ 308	
					J	Ethylbenzene	
					J		@ 73200 µg/l
					J	o-Xylene @ 15	
					J	m,p-Xylene @	
1,4	State Gas Com.	MW-5	T5377-02	Y	J	Benzene @ 23	
					J	Toluene @ 15'	7 μg/l
					J	Ethylbenzene	
					J		@ 11300 µg/l
					J	o-Xylene @ 18	
		140000000000			J	m,p-Xylene @	11100 µg/l
None	Trip Blank	140903TB01	T5377-03	N			
<u></u>							
					·		
		-					·····



Analytical Method:

SW-846 8021B (BTEX)

MWH Job Number: <u>EPC-SJRB (Groundwater)</u>

Laboratory:

Accutest

**Batch Identification:** 

T5377

Validation Criteria						
Sample ID	State Gas Com. MW-4	State Gas Com. MW-5	140903TB 01			
Lab ID	T5377-01	T5377-02	T5377-03			
Holding Time	A <sup>1</sup>	A <sup>1</sup>	А		_	
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 <sup>2,3</sup>	A <sup>4</sup>	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	А	A			
Laboratory Control Sample Duplicate (LCSD)	N	N	N			
Method Blank	A	А	А			
Matrix Spike/Matrix Spike Dup. (MS/MSD)	N/A	N/A	N/A			
Retention Time Window	N	N	N			
Injection Time(s)	N	N	N			
Hardcopy vs. Chain-of-Custody	А	А	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

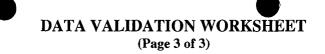
N indicates data review were not a project specific requirement

N/A indicates criteria are not applicable for the specified analytical method or sample

N/R indicates data not available for review

#### NOTES:

- 1) Non-preserved sample holding time of seven days exceeded by one day, indicating a possible low bias. Qualify associated sample hits with "J" flags to indicated the data are estimated and potentially biased low and qualify associated non-detects with "UJ" flags to indicate the results are possible false negatives.
- 2) Surrogate percent recovery outside acceptance criteria for the following (applies to ethylbenzene):
  - a) 4-Bromofluorobenzene @ 145% (64-121), indicating a possible high bias. Qualify associate sample hits with "J" flags to inciate the data are estimated and potentially biased high.
  - b) aaa-Trifluorotoluene @ 253% (71-121), indicating a possible high bias. Qualify associate sample hits with "J" flags to inciate the data are estimated and potentially biased high. Only one surrogate outside acceptance criteria, no data qualified.



- 3) Surrogate percent recovery outside acceptance criteria for the following compounds (applies to all compounds but ethylbenzene):
   a) 4-Bromofluorobenzene @ 129% (64-121), indicating a possible high bias. Qualify associate sample hits with "J" flags to
  - inciate the data are estimated and potentially biased high.
    aaa-Trifluorotoluene @ 132% (71-121), indicating a possible high bias. Qualify associate sample hits with "J" flags to inciate the data are estimated and potentially biased high.
- 4) Surrogate percent recovery outside acceptance criteria for the following compounds: (applies to toluene & o-xylene)
  - a) 4-Bromofluorobenzene @ 138% (64-121), indicating a possible high bias. Qualify associate sample hits with "J" flags to inciate the data are estimated and potentially biased high.
  - b) aaa-Trifluorotoluene @ 298% (71-121), indicating a possible high bias. Qualify associate sample hits with "J" flags to inciate the data are estimated and potentially biased high. Only one surrogate outside acceptance criteria, no data qualified.

•																						
			Matrix Codes	DW - Drinking Water	WW - Water	SW - Surface Water SO - Soil	SL - Sludge	LIQ - Other Liquid	AIR - Air SOI - Other Solid	WP - Wipe												Cooler Terrie.
lpnu	Bottle Order Control #	Accutest Job #	Requested Analysis														Comments / Remarks	5			2 Received by:	
# 150903	557 96059 2	Accutest Quote #	α.												 		-			er delivery. Date Time:	Date Time;	Preserved where applicable
CUSTODY # 150903 mv41	0165 Harwin Drive, Ste. 150, Houston, TX 77036 FED EX Tracking # TEL., 713-271-4700 FAX: 713-271-4770	www.accutest.com								Number of preserved Bottles 5 등 1층 2월 1층 1층 1월		X 1	×				I I I I I I I I I I I I I I I I I I I	CD Format		documented betwe each time samples change possession, including courier delivery.	2 Relinquished by:	4 Custody Seal #
CHAIN (	10165 Harwin Drive, Stc. TEL, 713-271-4700	. www.acc	Project Information	svound with		State		55992119		Sampled # of # of	by maun bottles &	mu we	1 100				Data Deliverable Information		Commercial "A" = Results Only	usi be documented befow each time sa	L Re	70
				Project Name	Street	87401 CIV	Project #	Fex# 505	Client Purchase Order #	3	0.6/1/ 6/ //4	0H7103 1240	9/14/25 0500		 			Commercial "A"	Com	Accolored by:	1000 Banteyoy	Reference of
	ACCUTEST	Laboratories	Client / Reporting Information	H/EL Reso	Reilly	ringer NM	Pone	599 2124	₹	Field ID / Point of Collection St.	Patersian mu-4	Statichascom MW-5	1409037841				Turmaround Time (Business Days)	TAMDARD Approved By: / Date: ISH IERGENCY AERGENCY AERGENCY	Other Emergency & Rush T/A data available V/A LabLink	Dat Tim		are of the second se
		J	Compare Mame	mu	Address Cort-L-1	and a	Project Contact	Phone #	Sampler's Name	Accutest Sample #								Edito Day Standard       5 Day Rush       3 Day Emergency       1 2 Day Emergency       1 1 Day Emergency	Emergency	Refinquished b	1 Relinquished by	Relinquished by: 5



09/25/03

#### **Technical Report for**

**Montgomery Watson** 

EPFS San Juan Basin Groundwater Site

Accutest Job Number: T5377

Report to:

MWH

pamela.j.anderson@us.mwhglobal.com

ATTN: Pam Anderson

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.

1, 22° "

Ron Martino Laboratory Manager

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

Gulf Coast • 10165 Harwin Drive • Suite 150 • Houston, TX 77036 • tel: 713-271-4700 • fax: 713-271-4770 • http://www.accutest.com

#### Sample Summary

#### Montgomery Watson

Job No: T5377

EPFS San Juan Basin Groundwater Site

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
T5377-1	09/14/03	11:50 MN	09/16/03	AQ	Water	STATEGASCOM MW-4
T5377-2	09/14/03	12:40 MN	09/16/03	AQ	Water	STATEGASCOM MW-5
T5377-3	09/14/03	08:00 MN	09/16/03	AQ	Trip Blank Water	140903TB01

		Repo	rt of An	alysis		Page 1 of
Client Sam Lab Sampl Matrix: Method: Project:			er Site	Date Sampl Date Receiv Percent Sol	red: 09/16/03	
Run #1 <sup>a</sup> Run #2 <sup>a</sup>	File ID         DF           KK005802.D         100           KK005803.D         500	Analyzed 09/22/03 09/22/03	By BC BC	Prep Date n/a n/a	Prep Batch n/a n/a	Analytical Batch GKK312 GKK312
Run #1 Run #2	Purge Volume 5.0 ml 5.0 ml					
Purgeable A	Aromatics					<u></u>
CAS No.	Compound	Result	RL	Units Q		
71-43-2 108-88-3 100-41-4 1330-20-7 95-47-6	Benzene Toluene Ethylbenzene Xylenes (total) o-Xylene m,p-Xylene	24000 b 30800 b 4670 73200 b 15500 b 57800 b	500 500 100 1500 500 1000	ug/l ug/l ug/l ug/l ug/l ug/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	145% <sup>c</sup> 253% <sup>c</sup>	129% d 132% d	64-121% 71-121%		

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

(b) Result is from Run# 2

(c) Outside control limits due to matrix interference.

(d) Outside control limits due to matrix interference. Confirmed by reanalysis.



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

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

J = Indicates an estimated value

Report of Analysis

Page 1 of 1

Client Sam Lab Sampl Matrix: Method: Project:	e ID: T5377-2 AQ - Water SW846 8021		er Site	Date Sample Date Receiv Percent Soli	ed: 09/16/03	
Run #1 <sup>a</sup> Run #2 <sup>a</sup>	File ID         DF           KK005796.D         10           KK005804.D         500	Analyzed 09/22/03 09/22/03	By BC BC	Prep Date n/a n/a	Prep Batch n/a n/a	Analytical Batch GKK312 GKK312
Run #1 Run #2	Purge Volume 5.0 ml 5.0 ml					
Purgeable A	Aromatics					
CAS No.	Compound	Result	RL	Units Q		
71-43-2 108-88-3 100-41-4 1330-20-7 95-47-6	Benzene Toluene Ethylbenzene Xylenes (total) o-Xylene m,p-Xylene	23100 <sup>b</sup> 157 2480 <sup>b</sup> 11300 <sup>b</sup> 181 11100 <sup>b</sup>	500 10 500 1500 10 1000	ug/l ug/l ug/l ug/l ug/l ug/l		
CAS No.	Surrogate Recoveri	es Run# 1	Run# 2	Limits		
460-00-4 98-08-8	4-Bromofluorobenze aaa-Trifluorotoluene	ne 138% <sup>c</sup> 298% <sup>c</sup>	103% 114%	64-121% 71-121%		

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

(b) Result is from Run# 2

(c) Outside control limits due to matrix interference.



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

Page 1 of 1

Client Sam Lab Sample Matrix: Method: Project:	e ID: T5377-3 AQ - Trip Bl SW846 8021		ter Site	Date Sampled: 09/14/03 Date Received: 09/16/03 Percent Solids: n/a				
Run #1 Run #2	File ID DF KK005793.D 1	Analyzed 09/22/03	By BC	Prep Date n/a	Prep Batch n/a	Analytical Batch GKK312		
Run #1 Run #2	Purge Volume 5.0 ml							
Purgeable	Aromatics							
CAS No.	Compound	Result	RL	Units Q				
71-43-2 108-88-3 100-41-4 1330-20-7 95-47-6	Benzene Toluene Ethylbenzene Xylenes (total) o-Xylene m,p-Xylene	ND ND ND ND ND	1.0 1.0 3.0 1.0 2.0	ug/l ug/l ug/l ug/l ug/l ug/l				
CAS No.	Surrogate Recoveri	es Run# 1	Run# 2	Limits				
460-00-4 98-08-8	4-Bromofluorobenze aaa-Trifluorotoluene	ne 99% 95%		64-121% 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

T

#### GC Volatiles

**QC** Data Summaries

Includes the following where applicable:

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

#### Blank Spike Summary

BIANK S Job Numbe Account: Project:	pike Summary er: T5377 MWHSLCUT Montg EPFS San Juan Basin						Page 1 of
Sample GKK312-B	File ID DF S KK005791.D 1	Analyzed 09/22/03	By BC	P: n/	rep Date ′a	Prep Batch n/a	Analytical Batch GKK312
	ported here applies to the 5377-2, T5377-3	following san	nples:			Method: SW	846 8021B
CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits		
71-43-2	Benzene	20	22.9	115	74-119		
100-41-4	Ethylbenzene	20	22.9	115	82-115		
108-88-3	Toluene	20	22.4	112	77-116		
1330-20-7	Xylenes (total)	60	67.7	113	79-115		
95-47-6	o-Xylene	20	22.4	112	78-114		
	m,p-Xylene	40	45.2	113	79-116		
CAS No.	Surrogate Recoveries	BSP	Liı	nits			
		1150/	64-121				
460-00-4	4-Bromofluorobenzene	115%	04	12170			

Method B Job Number: Account: Project:	lank Summary T5377 MWHSLCUT Mont EPFS San Juan Basin		Site			Page 1 of 2
Sample GKK312-MB	File ID DF KK005792.D 1	Analyzed 09/22/03	By BC	Prep Date n/a	Prep Batch n/a	Analytical Batch GKK312
The QC repor T5377-1, T537	ted here applies to the 7-2, T5377-3		Method: SW	/846 8021B		
CAS No. Co	ompound	Result	RL	Units Q		

71-43-2 100-41-4 108-88-3 1330-20-7 95-47-6	Benzene Ethylbenzene Toluene Xylenes (total) o-Xylene m,p-Xylene	ND ND ND ND ND	1.0 1.0 3.0 1.0 2.0	ug/l ug/l ug/l ug/l ug/l ug/l
CAS No.	Surrogate Recoveries		Limi	ts
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	104% 64-12 101% 71-12		

### Matrix Spike/Matrix Spike Duplicate Summary Job Number: T5377

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

Sample	File ID DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T5378-1MS	KK005800.D 10	09/22/03	BC	n/a	n/a	GKK312
T5378-1MSD	KK005801.D 10	09/22/03	BC	n/a	n/a	GKK312
T5378-1	KK005797.D 1	09/22/03	BC	n/a	n/a	GKK312
T5378-1	KK005799.D10	09/22/03	BC	n/a	n/a	GKK312

The QC reported here applies to the following samples:

Method: SW846 8021B

T5377-1, T5377-2, T5377-3

CAS No.	Compound	T5378-1 ug/l Ç	Spike ) ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 108-88-3 1330-20-7 95-47-6	Benzene Ethylbenzene Toluene Xylenes (total) o-Xylene m,p-Xylene	125 <sup>a</sup> 5.2 2.6 3.0 1.4 1.6 J	200 200 200 600 200 400	345 229 228 700 235 465	110 112 113 116 117 116	346 230 227 697 235 461	111 112 112 116 117 115	0 0 0 0 0 1	64-124/16 64-123/14 64-120/13 66-118/18 65-119/20 66-120/14
CAS No. 460-00-4 98-08-8	Surrogate Recoveries 4-Bromofluorobenzene aaa-Trifluorotoluene	MS 111% 99%	MSD 103% 90%		378-1 3% %	T5378- 95% 89%		imits  -121%  -121%	

(a) Result is from Run #2.

Page 1 of 1

													_			 ·	 		)									
			Matrix Codes	DW - Drinking Water GW - Ground Water	WW - Water	SW - Surface Water SO - Soil	SL - Sludge	OI - Oi LIQ - Other I Iquid	AIR - Air SOL - Other Solid	WP · Wipe	LAB USE ONLY																	Cooler Terme.
lφ	Bottle Order Control #	# qo[	lysis													 			/Hemarks		、					·4	γ.	3
NW	Bottle O	Accutest Job #	Requested Analysis	 	·										 	 										Received by	Received by: 4	èr.
CUSTODY # 150903 mvd1	252		Re																						0		Date Time:	icable
150.	10165 Harwin Drive, Ste. 150, Houston, TX 77036 FED-EX Tracking # TEL. 713-271-4700 FAX: 713-271-4770	#			<u> </u>											 	 									5	Dat	Preserved where applicable
#	JEX Trackin	Accutest Quote #								10	2					 	 		_						ourier deliver			Presen
<b>VU</b>	77036 FE	¥.							<u> </u>	TT	BICOLE	×	X	X		 									1, including c			
STC	ston, TX 7									erved Bottles	HO3H1 HOSHRN SNON	2	1		 	 				1					a possession			
CÜ	150, Hous FAX: 713	test.com								Number of preserved	HUSZH EONH														be documented below each time samples change possession, including couner delivery.	in navembr	Relinquished by: 4	Custody Seal #
	rive, Ste. 71-4700	www.accutest.com	Project Information	び		State		2113			N <sup>R</sup> OH				 		 							<u>ک</u> و	ach time sai		A Rei	S
HAIN	Harwin D EL. 713-2		Project Is	1 with		33		2 66		-	Matrix bottles	W6 2	2 9	NS I	 	 _	 		Odia					Results O	nted below e			
CHA	10165   T							1	h		Sampled A	m	SAN NUL	24			 		cial V.	cial "B"	1 Tier 1	_		Commercial "A" = Results Only	t be docume			•
U				Name /			#	505	Client Purchase Order #	Collection	Time	1150	0421	0000							C Reduced Tier 1			Comm	Sample Custody must		D. N.	
				Project Name	Street	Aig.	Project #	fax #	Client F		Date	1/14/03	8/14/03	9/14/13 0500								- <u> </u>			Sample	-ta national	Bunditaday	Received by: 5
						ゆしたの				SUMMA #	MEOH Val #														- exercise	<u> </u>		5 Re
		م إ ق	Jo I			Ø						4	ŗ						/ Date:						33 H	9/15	Part and	Date Time:
		e L	Client / Reporting Information	2		2	-			ollection		else on mu	Statichus com MW-5	/				loce Date)	Approved By: / Date:					\ LabLink				
N 1 -		oratorie	lient / Report	230		State		1 2	2	Field ID / Point of Collection		MO	Scon	140903780				Tumonind Time (Duciness Daw)	Y A	1		ł	r I	ailable VIA				
		L a b o	<u>c</u>	EL	11	03		2/26	13	Field ID		Sare (	うい	1037				Timoono						/A data av		ł		
	ACCUTEST			4	le'	Jerrind	1 +	<u>با</u> [	で い の			Bate	564	140.					10 Day STANDARD	HSU	3 Day EMERGENCY	LI 2 Day EMERGENCY		Emergency & Rush T/A data available VIA LabLink	C			×
観ア	Y			Company Name	Address してイレ)	E C	Project Contact	Phone #	Sampler's Name	Accutest	Sample #								E 10 Day :	C 5 Day RUSH	0 30ay E		C Other	Emergenc			Relinquished by	Relinquished by: 5

			ERECEIPT	. /			
ов#:		DATE/TIME RECE	IVED:	7/14/03	0850 VV		
LIENT: ELP	ASO /M	wH		INITIALS:	K		
Y NA Sample rece	ived in undamag ived with proper me sufficient for stody matches sa I received intact a	ed condition. 2. pH. 4. analysis. 6. ample IDs on conta and tamper eviden	N Sampl N Sampl N Sampl N Sampl N Sampl N Sampl N Samples	es received w e received in		nge. ners.	
SAMPLE or FIELD ID	BOTTLE #	DATE SAMPLED	MATRIX	VOLUME	LOCATION	PRESERV.	РН
	1-2	9/14/03	WW	VDA	VREF	1,2,3,4,5,6	U, <2, >12,
2	1-2				<b> </b>	1,2,3,4,5,6	U, <2, >12,
3	1					1,2,3,4,5,6	U, <2, >12, ]
<u> </u>						1,2,3,4,5,6	U, <2, >12,
						1,2,3,4,5,6	U, <2, >12,
						1,2,3,4,5,6	U, <2, >12,
						1,2,3,4,5,6	U, <2, >12,
						1,2,3,4,5,6	U, <2, >12,
		1/23	10			1,2,3,4,5,6	U, <2, >12,
		9/14/03				1,2,3,4,5,6	U, <2, >12,
						1,2,3,4,5,6	U, <2, >12,
						1,2,3,4,5,6	U, <2, >12,
						1,2,3,4,5,6	U, <2, >12,
						1,2,3,4,5,6	U, <2, >12,
						1,2,3,4,5,6	U, <2, >12,
DCATION: WI: Walk-In RESERVATIVES: 1: None				e Freezer		1,2,3,4,5,6	U, <2, > <del>12,</del>
f of waters checked exclu	iding volatiles	>	Comments:				
Tot soils - N/A	r: <u>F</u> ed	<u>A</u>		COOLER TEM		COOLER TE	MP:

## 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
<b>Project Manager</b>	MJN		
<b>Client Company</b>	MWH	Date	12-9-03
Site Name	State Gas Com		

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed
MW-1	1023		75.62		
MW-2			76.22		
MW-3		76.15	76.22	0.07	8 ounces
			78.01		2.5 gallons water
MW-4			76.07		
MW-5			74.25		
MW-6		71.10	71.75	0.65	14 ounces
MW-6 final			74.32		bailed 2gal water

#### Comments

There was no product in MW-1 or MW-2 during this visit. There was product in both these wells last quarter. MW-5 is 169.7' N1E of MW-6.

Signature:

Martin J. Nee

Date:

December 9, 2003

#### WEDEVELOPMENT AND SAMPLINELOG

Project No.:30001.0	Project Name: SJB Groundwater	Client:_MWH/EL Paso
cation:_State Gas Com	Well No: <u>MW-5</u>	Development <u>Sampling</u>
voject ManagerMJN	Date <u>9/14/03</u> Start	Time <u>1210</u> Weather <u>Sunny 70s</u>
Depth to Water74.42_	Depth to Product Product Thickness	s_na Measuring PointTOC
Water Column Height	Well Dia2"	

Sampling Method: Submersible Pump 🗋 Centrifugal Pump 📋 Peristaltic Pump 🔲 Other 📋

Bottom Valve Bailer x Double Check Va

Double Check Valve Bailer 🗆 Stainless-Steel Kemmerer 🛛

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

	Water Volun	ne in Well	
Gal/ft x ft of water	Gallons	Ounces	Gal/oz to be removed
7.63 x .16	1.22 x 3		3.66

Time (military)	pH (su)	SC (umhos/cm)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gallons)	Comments/ Flow rate
1214	6.45	7140	18.3				0.25	clear
<u> </u>	6.49	7470	17.7				0.5	
	6.48	7290	17.8				0.75	
	6.51	7320	17.8				1.75	
	6.50	7190	17.7				2.75	grey
<u>1239</u>	6.56	7190	17.5				3.75	

Final:						All 1987 - Marian Alexandro Marian	Ferrous			
Time	рН	SC	Temp	Eh-ORP	D.O.	Turbidity	Iron	Vol Evac.	Comments/Flow Rate	
<u>1239</u>	6.56	7190	17.5					3.75		р. Т.

COMMENTS: no preservative to to RXN between carbonate in GW and HCL

INSTRUMENTATION:	pH Meter X		Temperature Meter x
	DO Monitor		Other
Condu	ctivity Meter X		
Water Disposal Kutz	Sample ID_State Gas	Com MW-5	Sample Time1240
<b>TEX</b> VOCs Alkalinity	TDS Cations Anions	Nitrate Nitrite Ammonia	TKN NMWQCC Metals Total Phosphorus
MS/MSD	BD	BD Name/Time	TB140903tb01



DEVELOPMENT AND SAMPLIN

Project No.: <u>30001.0</u>	Project Name: SJB Groundwater	Client: <u>MWH/EL Paso</u>
cation:_State Gas Com	Well No: <u>MW-4</u>	Development Sampling
roject ManagerMJN	Date9/14/03 Start Ti	me <u>1109</u> Weather <u>Sunny 70s</u>
Depth to Water <u>76.28</u>	Depth to Product Product Thickness	na Measuring Point <u>TOC</u>
Water Column Height <u>6.40</u>	Well Dia4"	

Sampling Method: Submersible Pump Centrifugal Pump Peristaltic Pump Other

Bottom Valve Bailer x Double Check Valve Bailer Stainless-Steel Kemmerer

Criteria: 3 to 5 Casing Volumes of Water Removal X stabilization of Indicator Parameters X Other <u>or bail dry</u>

	Water Volur	ne in Well	
Gal/ft x ft of water	Gallons	Ounces	Gal/oz to be removed
6.40 x .65	4.16 x 3		12.47

Time (military)	pH (su)	SC (umhos/cm)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gallons)	Comments/ Flow rate
1120	6.61	4590	20.1				0.75	clear
	6.68	5760	18.3				1.5	
	6.68	5260	17.4				2.25	
1134	6.71	5030	17.0				5.25	slight gray
46	6.98	4670	16.8				7.5	well has bailed dry
				·				

Final:				1. 1999 - 1999 1990 - 1999 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1			Ferrous	Nacional Presidente	
Time	pН	SC	Temp	Eh-ORP	D.O.	Turbidity	Iron .	Vol Evac.	Comments/Flow Rate
1146	6.98	4670	16.8		1. The second			7.5	well has bailed dry
		fan der			Sac.	e a construction de la construction La construction de la construction d	- TALAN.		

COMMENTS: no preservative to to RXN between carbonate in GW and HCL

INSTRUMENTATION:	pH Meter X			Temperature Meter x	
	DO Monitor			Other	
Condu	ctivity Meter X				
Water Disposal Kutz	Sample ID_S	tate Gas Com MV	<u>V-4</u>	Sample Time1150	
TEX VOCs Alkalinity	TDS Cations	Anions Nitrate	Nitrite Ammonia	TKN NMWQCC Metals To	otal Phosphorus
MS/MSD	BD	B	D Name/Time	ТВ	140903tb01

 $\checkmark$ 

#### 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		
<b>Client Company</b>	MWH	Date	9-14-03
Site Name	State Gas Com		

Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed (gal)
1040	75.77	75.79	0.02	0.01
		76.84		bailed 2.25 gal grey water
	76.33	76.35	0.02	0.01
		77.91		bailed 1.75 gal water
	76.306	76.36	0.054	0.04
		77.23		
		76.28		
		74.42		
	71.04	72.25	1.21	0.2
		73.59		bailed 1.25 gal black water
		Time         Product (ft)           1040         75.77           76.33         76.306           76.306         76.306	Time         Product (ft)         Water (ft)           1040         75.77         75.79           76.33         76.35         76.35           76.306         76.36         77.23           76.28         71.04         72.25	Time         Product (ft)         Water (ft)         Thickness (ft)           1040         75.77         75.79         0.02           76.33         76.35         0.02           76.306         76.36         0.054           77.23         76.28         74.42           71.04         72.25         1.21

Comments

Product in MW-1 for first time. Also product thickness increased significantly in MW-6

Signature:

Martin J. Nee

Date:

September 14, 2003

		WELL					NG LU		- <u></u>
Project No:	300	2,0	Projec	t Name: 🚄	stor	water	Client	_mu	
Location:	tote G	AL WEIL	lo:	W-6		Devel	opment 🗹	Samplir	ng 🗖
Project Man	ager 🟒	ATN		_ Date <u>/</u>	16:0	<b>3</b> Start Tim	e <u>092</u>	Zweather_	Sung 805
Depth to W	ater_` <b>7</b> /	Dept	th to Pro	duct 70	Produc	t Thickness	.615	Measuring	Point <u>TCC</u>
Water Colur	nn Height	12.1	Well Dia.	<u></u>					<u></u>
Sampling N	ethod:	Submersible I		Centrifug	al Pump [	] Peristatt	ic Pump [	] Other	]
	I	Bottom Valve	Bailer [	Double (	Check Val	ve Bailer 🗌	Stainles	s-Steel Ke	mmerer 🔲
Criteria: 31	o 5 Casin	g Volumes of		Removal L			ator Paran		Other
Gal/ft x f	t of water		Gallons			Ounces			z to be removed
12.1 ×			36× 3					5-808	/
Time (military)	рН	SC (umhos/cm)		Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	··· •	Comments/ Flow rate
0922	670	7670	196				.25		~nfbleckth
	679	7990	185					blac	k translucion
	681	8390	191				_ <u>Z</u>	<u></u>	
	683 652	\$520 <b>9</b> 430	185	<u> </u>		<u> </u>			
1001	602		190	,			-4-		
1000	680	8970	141				- 12	M	skinged us
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	<u> </u>	- <u></u> .							
		··		·					
Final: Time	pН	SC	Temn	Eb-ORP		Turbidity	Ferrous Iron	Vol Evac	Comments/Flow rat
1008		680						6	Commentar IOW Par
1000	<u> </u>			······································		··			
COMMENT	S:				<u></u>				
<del></del> ,,,									
INSTRUMEN	ITATION:			<u> </u>		Tempe	rature Met	er 🛛 🖉 📖	······
		DO M Conductivity		┇───			Oth	er 🔲	
Water Dispo	sal K	. / .		-					
Sample ID	•					ВТІ	≡x 🗖 🗸	OCs 🔲 🗚	Nkilinity 🔲
	ations 🗖	Anions		itrate 🗖	Nitrite	Amr	nonia 🔲	TKN 🗖	NM WQCC Metals
						_			

Project No:	3000	01.0	Projec	t Name:	onto	not	Client	: mu	JH
-		Well N			\$100				
Project Man					5.261			, ,	Sunny 80
Depth to W					-				Point TBC
Water Colu			Nell Dia.	1.11	-			Ū	
Sampling N	Aethod:	Submersible F Bottom Valve							marar 🗖
Criteria: 3	to 5 Casi	ng Volumes of	-						
				Water Volum					¢
- 1 - 77	ft of wate	1	Gallons			Ounces		· · · · · · · · ·	to be removed
	<u>рН</u>	SC	59×3	Eh-ORP	D.O.	Turbidity	Vol Evac	11.317	Comments/
Time (military)	рп	(umhos/cm)	•	(millivolts)		(NTU)	(gal.)	•	Flow rate
084	619	10780	182				/	clean.	al product
	6-5	10780	187				5	quinsi	It frenslucen
	129	11820	187	·	<u></u>		65	welle	o bailing do
DAID	64	10810	190				&	will.	isdy
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inal: Time 0910	рН <i>Н</i> 49	SC	Temp	Eh-O'RP	D.O.	Turbidity	Ferrous Iron	Voi Evac.	Comments/Flow rät
COMMEN	TS:	wre ed	uel	f vrgo	nous	hy.	Ren	rand	Silt from
both	an	of we	Ĵ	,		0			
		0							
NSTRUME	NTATION	N: pH	Meter 1	ব		Tempe	ature Me	ter 🕼	
		DO M	lonitor [	]		• -		ier 🗌	
Motor Dia		Conductivity Kurz		• •					
Water Dispo Sample ID				npie Time _		BT		/OCs 📋 Al	kilinity 🔲
				itrata 🗖	Nitrito		nonia 🗖		NM WQCC Metals

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		WEL	EVELU	PMENI	AND			
•				_				mwH
Location: 2	et d 78	Well I						Sampling 🛛
Project Mana	ager <u> </u>	NTN_	<u>.</u>	Date 🧕	<u>-26-0</u>	Start Tim	ne <u>C&amp;03</u>	Weather <u>Sorry 805</u>
Depth to Wa	ater 7	135 Dec	oth to Prod	luct $\mathcal{K}^3$	3 Produc	t Thickness	.02	Measuring Point
Water Colum		, 7Z4	Well Dia.	44				
		<u> </u>						
		Submersible Bottom Valve	e Bailer 🔀	Double (	Check Val	ve Bailer 🗌	] Stainles:	s-Steel Kemmerer 🗖 👝 🛒 🖊
Critena: 3 t	o 5 Casi	ng Volumes o				tion of India	ator Param	neters 🛛 Other <u>Orbsid</u>
Gal/ft x f	t of water	.		Vater Volum				Gal/oz to be removed
7.24%	. 65		Gailons			Dunces		14-12
Time (military)	pН	SC (umhos/cm)	Temp	Eh-ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. (gal.)	
0803	T.GA	(DEID)	1614				.5	(lean
0000	164	7/780	101		<u> </u>			
	0-170	1000	100				_ <del></del>	1/2 CH
	$\frac{G}{168}$		18-		<u> </u>		-0-	1 2 2 1 2 C
<u> 0825</u>	$\mathcal{Q}_{}^{es}$	10610	<u></u>	<u> </u>	<u> </u>		1-5	
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							Earous	
		  SC		Eh-ORP	  D.O.	Turbidity	Ferrous	Vol Evac. Comments/Flow rate
	pH LCB		A.	Eh-ORP	  D.O.	Turbidity		
	pH CCB	sc <u>4670</u>	A.	Eh-ORP	D.O.	Turbidity		Vol Evac. Comments/Flow rate
Time 6825	600	4670	179					7.45
	1600 rs: <u>3</u> 0	(1670) vrgerd v	179					
Time 	1600 rs: <u>3</u> 0	4670	179					7.5
Time <u>COMMENT</u> COMMENT	1600 rs: <u>3</u> 0	1670 regent v cou	179 1200 En 12					7.5
<u>соммент</u>  	15: <u>30</u> m.;	1670 voged v cou botte	179 1200 Carx	st ing	H.	2am - fla	Iron Si/t,	75 Well baild Remous sitt
Time <u>COMMENT</u> COMMENT	15: <u>30</u> m.;	(1670) vrgerd v Cou botte	139 Inizona Carro Mater D	st ung	H.	2am - fla	Iron Si /4, come	7.5 Well baild Remound Bith
	15: <u>30</u> m.;	Cou Cou botte	139 1200 Carro Larro I Meter D Monitor	st ung	H.	2am - fla	Iron Si /4, come	75 Well baild Remous sitt
	IS: <u>Br</u> ;	(1670) vrgerd v Cou botte	139 1200 Carro Larro I Meter D Monitor	st ung	H.	2am - fla	Iron Si /4, come	7.5 Well baild Remound Bith
		Cocce botte Cocce botte Do H Conductivity	1 79 1 2010 Cal 20 1 Meter D Monitor D Meter R	sp us	H.	2arr - 1arr Tempe	Iron Si / A, come erature Meter Othe	7.5 Well baild Remound Bith
Time COMMENT A O H A C H A	IS: <u>30</u> TS: <u>3</u>	LIGO Cou both both Conductivity Uf Z NZ	I Meter D Monitor C Sarr		H.	Zany Jan Tempe		7.5 Ulill baild Remound sitt
Time COMMENT A O H A C H A	TS: 30	LIGTO Conce Conce Conce Li pt DON Conductivity UTZ Anions	I Meter D Monitor C Meter C Sarr		Nitrite	Tempe BTI		7.5         Well baild         Remoust ŝitt         Remoust ŝitt         er Ø         ocs □ Alkilinity □         TKN □ NM WQCC Metals □

### 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		
<b>Client Company</b>	MWH	Date	6-26-03
Site Name	State Gas Com		

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed
MW-1	0708		75.76	0	
MW-2		76.33	76.35	0.02	2 oz
MW-3		76.19	76.22	0.03	3 oz
MW-4			76.24		
MW-5			74.27		<u> </u>
MW-6		71.035	71.66	0.625	12 oz
					· · · ·

Comments

Redeveloped MW-2, MW-3 and MW-6.

Signature:

Martin J. Nee

Date: Ju

June 26, 2003

# **Product Recovery and Well Observation Data**

Project Name: SAN, TVAN BSBIN
Project Manager:
Client Company:MWH
Site Name: State Gas Com N#1

Project No: ZZ00313 Date: Much ZO, 2003

· Well	Time	Depth to Water (ft)	Depth to Product (ft)	Total Well Depth (ft)	Product Thickness (ft)	Volume Removed	Comments
MW-1	1035	76.025	No				· · · ·
mw-2		76-27	No				
mu-3		76.32	7628		.049	1/20/24	product is pale
		76.96	No			1.5 gal	End water
MU4		7628	No				
mus		7432	No				Λ
06		7143	7090	-	,53	• 33	1em 2 gal Noter
		7378	NO				rem agal noter End leting
	·						

COMMENTS: MW-3 removed 1.5 cal with MW-6 removed 2 gal with

Signature