

3R - 190

**CLOSURE
REQUEST**

1/09/2009



3R190

RECEIVED
2009 JAN 13 PM 1 17

Via FedEx

January 9, 2009

Mr. Glenn von Gonten
Senior Hydrologist
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**RE: Closure Request for Hamner #9 Site
NMOCD Case No. 3RP-190**

Dear Mr. von Gonten:

El Paso Tennessee Pipeline Company (EPTPC), formerly El Paso Field Services (EPFS), hereby requests regulatory closure of the Hamner #9 site (NMOCD Case No. 3R-190). This correspondence documents the analytical results from site monitoring activities that have been ongoing for several years in accordance with the Remediation Plan approved by the New Mexico Oil Conservation Division (OCD) on November 30, 1995. EPTPC formally requests closure of Hamner #9 site based on the data obtained and documented herein.

Summary of Project History

The Hamner #9 site was assessed in 1994 and given an NMOCD Hazard Ranking of 30. 70 cubic yards of impacted soil were excavated from the former pit in May 1994, and the first monitoring well (MW-1) was installed in August 1995, in the location of the former pit. The groundwater in MW-1 exceeded the NMWQCC groundwater standards for benzene (198 ug/L), toluene (1,480 ug/L), and total xylenes (2,250 ug/L).

In October 1996, additional site characterization work was conducted. Two piezometers were installed southwest and south of MW-1, along with 2 additional probeholes that were used for one-time gauging and groundwater sampling. As reported in the 1997 Groundwater Annual Report (EPFS, March 1998), the characterization effort indicated that the groundwater gradient was toward the south-southwest and groundwater impacts above the applicable standards were only present southwest of MW-1. The 1998 report also suggested that nutrient injection be utilized to facilitate degradation of the residual site impacts.

In correspondence dated July 8, 1998, the NMOCD required that EPFS install additional permanent groundwater monitoring wells at several sites, including the Hamner #9 site. In response, EPFS installed new wells MW-2 and MW-3 in September 1999 (permanent surface completions installed subsequently in July 2000). MW-2 and MW-3 were

El Paso Tennessee Pipeline Company
1001 Louisiana Street
Houston, Texas 77002



sampled annually from October 1999 through May 2002, with no detections of BTEX encountered. These results suggested that the remaining impacts were located in the more immediate vicinity of the former pit and monitoring well MW-1. Therefore, in November 2002, per previous recommendations made to the NMOCD regarding this site, EPFS injected approximately 92 pounds of oxygen releasing compound into direct push boreholes advanced on the north and east sides of the former pit. This effort was intended to help accelerate the natural attenuation of the remaining hydrocarbon impacts.

In a letter dated April 3, 2003, the NMOCD requested that additional plume delineation be conducted at several EPC sites, including Hamner #9. In response, EPC first re-surveyed the 3 monitoring wells at Hamner #9, finding that the groundwater gradient was directed toward the west, rather than to the south-southwest as originally understood. Following several meetings and project management transitions, EPC installed a new downgradient monitoring well (MW-4) in November 2006. This well was sampled four times between November 2006 and February 2008. The only detections occurred in November 2006, with toluene and total xylenes each being detected at estimated concentrations of less than 1 ug/L.

Monitoring Data

Figure 1 depicts the site layout and the most recent groundwater analytical results (November 2008). For reference, the approximate locations of the 1996 direct push piezometers and probeholes are also shown. Figure 2 is a trend graph of the historical BTEX concentration trends in monitoring well MW-1. Table 1, attached, summarizes the historic monitoring data for the site. As of November 2008, the groundwater quality at the site has now met the applicable New Mexico Water Quality Control Commission standards for 5 consecutive quarters, fulfilling the closure criteria specified in Section 5 of the approved Remediation Plan. Attachment 1 contains the laboratory analytical reports for these 5 quarterly sampling events.

If you have any comments or questions concerning the attached correspondence, please contact me at (713) 420-5150.

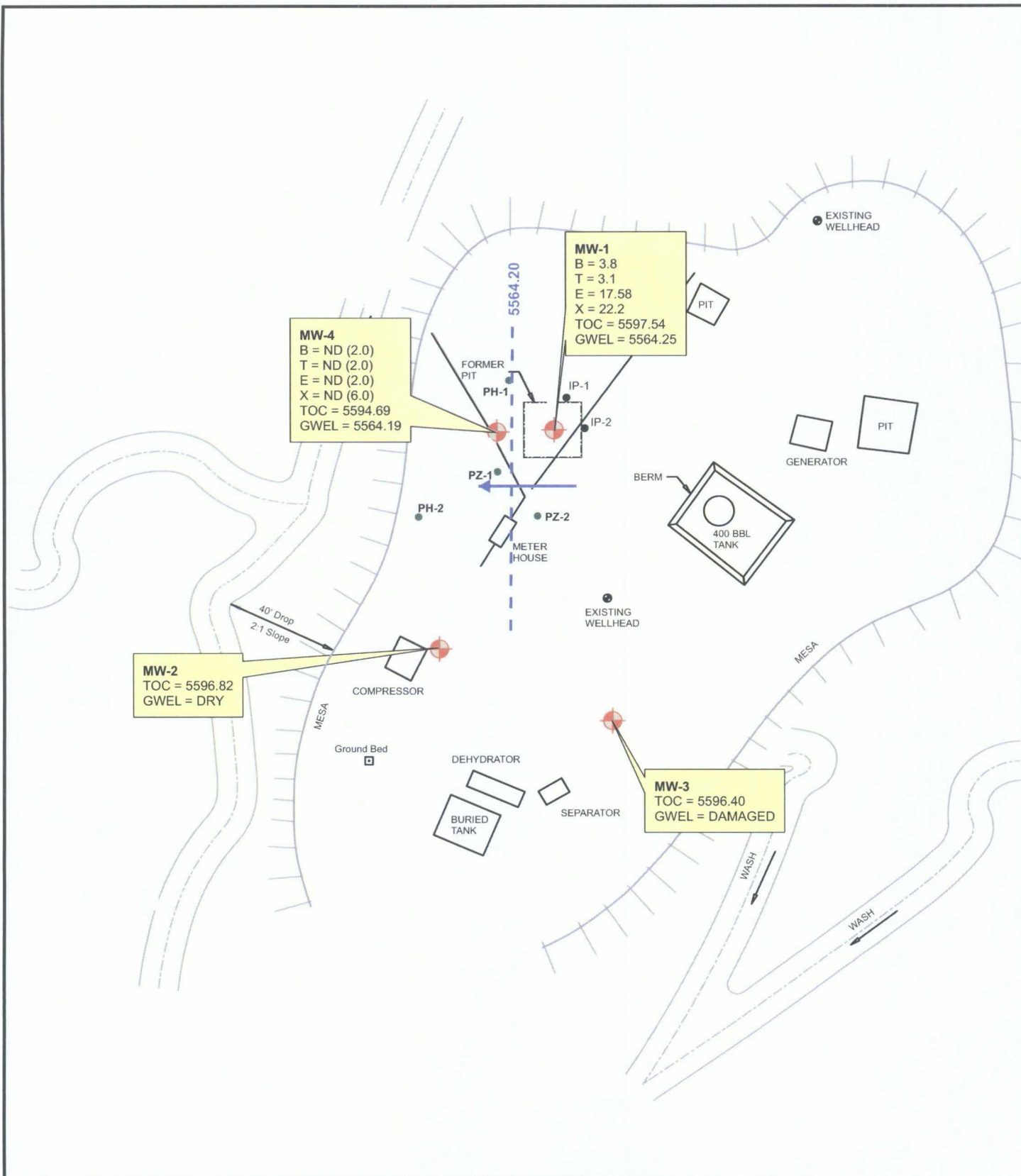
Sincerely,

A handwritten signature in black ink, appearing to read "D. Stavinoha", with a long horizontal line extending from the end.

Doug Stavinoha
Project Manager for El Paso Tennessee Pipeline Co.

cc: Jed Smith – MWH, w / o enclosures
Pit Groundwater Remediation – General File, w / enclosures

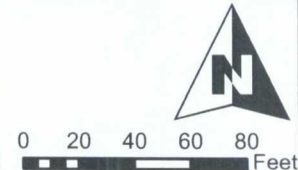
El Paso Tennessee Pipeline Company
1001 Louisiana Street
Houston, Texas 77002



LEGEND

MW-4	Existing Monitoring / Observation Well
	Approx. Location of 1996 Piezometer/ Probehole
	ORC Injection Point (Nov. 2002)
	Groundwater Flow Direction
	Potentiometric Surface Contour (Inferred Where Dashed)
ND	Not Detected; Reporting Limit Shown In Parenthesis

B	Benzene (ug/L)
T	Toluene (ug/L)
E	Ethylbenzene (ug/L)
X	Total Xylenes (ug/L)
TOC	Top of Casing (ft. AMSL)
GWEL	Groundwater Elevation (ft. AMSL)



MWH



PROJECT:

HAMNER #9

TITLE:

**Groundwater Potentiometric Surface Map,
and BTEX Concentrations - November 6, 2008**

FIGURE:

1

FIGURE 2
SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
HAMNER #9 (METER #97213)
MW01

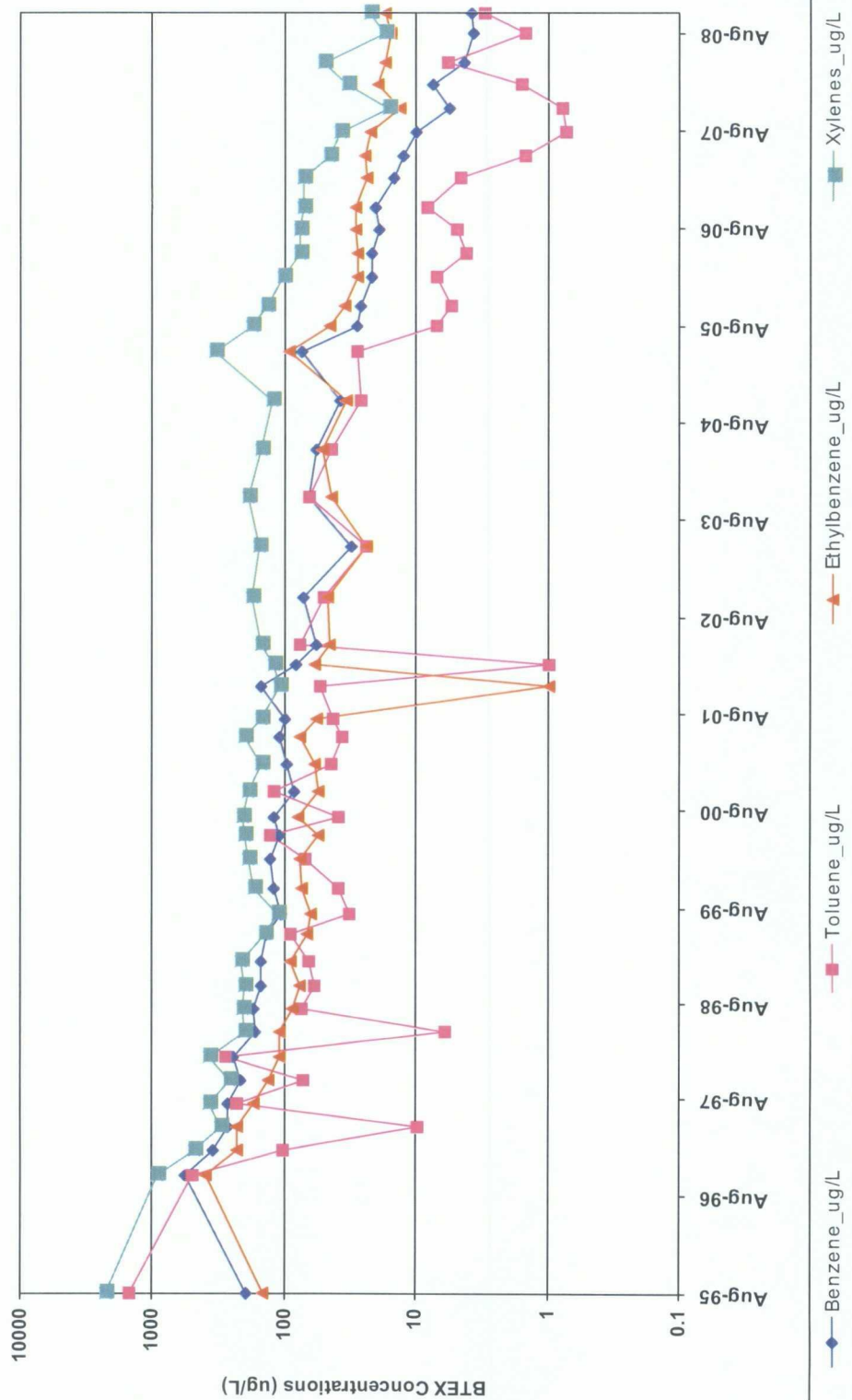


TABLE 1

**SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
HAMNER #9 (METER #97213)**

Monitoring Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft BTOC)
MW01	8/25/1995	198	1480	146	2250	29.53
	11/8/1996	559	499	395	933	30.30
	2/10/1997	350	101	233	476	30.07
	5/8/1997	266	9.75	230	308	29.99
	8/5/1997	272	228	172	370	30.16
	11/4/1997	216	72.1	133	260	30.21
	2/3/1998	245	276	109	375	32.48
	5/7/1998	166	6.02	110	202	32.38
	8/4/1998	171	74.4	86.1	209	32.54
	11/3/1998	151	58.7	76.4	204	32.62
	2/2/1999	153	64.8	89.7	217	32.42
	5/19/1999	137	89.4	67.3	141	32.28
	8/4/1999	105	32.6	63	113	32.28
	11/9/1999	120	39	75	170	32.19
	2/25/2000	130	70	78	190	32.05
	5/24/2000	110	130	56	200	31.96
	8/1/2000	120	39	80	210	32.08
	11/6/2000	84	120	56	190	32.19
	2/12/2001	95	44	60	150	32.12
	5/30/2001	110	36	78	200	32.06
	8/7/2001	99	43	58	150	32.28
	12/4/2001	150	53	1	110	32.40
	2/25/2002	83	1	59	120	32.39
	5/14/2002	57	78	46	150	32.37
	11/4/2002	72.5	50	47	178.6	32.67
	5/19/2003	31.1	24.4	23.9	158	32.45
	11/15/2003	65.5	65	44.5	190	32.76
	5/11/2004	57.6	44.5	52.1	153	32.61
	11/16/2004	38	26.4	34.7	126	32.88
	5/18/2005	74	27.9	93.1	340	32.67
	8/23/2005	28.6	7	46.3	175	33.05
	11/8/2005	26.2	5.5	35.5	137	32.93
	2/23/2006	22.1	7.1	28.2	102	32.81
	5/23/2006	21.6	4.2	28.3	76.6	32.83
	8/23/2006	18.9	5	29.1	76.7	33.06

Note: Non Detects are represented by a value of 1.

TABLE 1**SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
HAMNER #9 (METER #97213)**

Monitoring Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft BTOC)
MW01	11/8/2006	20.4	8.2	28.8	71.9	33.09
	2/26/2007	14.8	4.7	23.7	72.1	32.94
	5/24/2007	12.5	1.5	24.6	45.1	32.86
	8/21/2007	10.1	0.75	22.2	38	33.13
	11/13/2007	5.7	0.79	13.3	16.5	33.21
	2/12/2008	7.5	1.6	19.6	32.9	33.10
	5/8/2008	4.3	5.8	17.4	51	32.98
	8/26/2008	3.7	1.5	15.6	17.2	33.25
	11/6/2008	3.8	3.1	17.5	22.2	33.29
MW02	10/15/1999	1	1	1	1	29.57
	8/28/2000	1	1	1	1	31.65
	5/30/2001	1	1	1	1	31.57
	5/14/2002	1	1	1	1	31.85
MW03	10/15/1999	1	1	1	1	28.34
	8/28/2000	1	1	1	1	30.96
	5/30/2001	1	1	1	1	30.87
	6/13/2002	1	1	1	1	31.33
MW04	11/8/2006	1	0.28	1	0.36	30.32
	8/21/2007	1	1	1	1	30.31
	11/13/2007	1	1	1	1	30.41
	2/12/2008	1	1	1	1	30.31
	8/26/2008	1	1	1	1	30.42

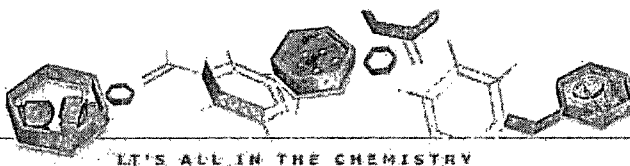
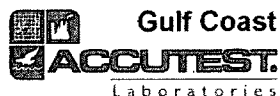
Note: Non Detects are represented by a value of 1.

ATTACHMENT A

Analytical Laboratory Reports



MWH



11/28/07

Technical Report for

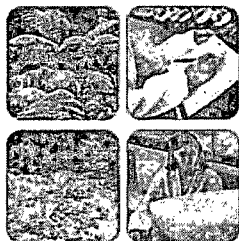
Montgomery Watson

EPFS San Juan Basin Groundwater Site

DALAB-GROUNDREM005

Accutest Job Number: T19743

Sampling Date: 11/13/07



Report to:


Danielwade@mwhglobal.com

ATTN: Daniel Wade

Total number of pages in report: 18



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.

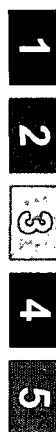

Ron Martino
Laboratory Manager

Client Service contact: Agnes Vicknair 713-271-4700

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

Montgomery Watson

Job No: T19743

EPFS San Juan Basin Groundwater Site
Project No: DALAB-GROUNDREM005

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T19743-1	11/13/07	11:25 MN	11/15/07	AQ	Ground Water	HAMNER MW-1
T19743-2	11/13/07	12:39 MN	11/15/07	AQ	Ground Water	HAMNER MW-4
T19743-3	11/13/07	07:00 MN	11/15/07	AQ	Trip Blank Water	131107TB01 TRIP BLANK



2

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Montgomery Watson

Job No T19743

Site: EPFS San Juan Basin Groundwater Site

Report Date 11/28/2007 3:56:09 PM

2 Samples and 1 Trip Blank were collected on 11/13/2007 and were received at Accutest on 11/15/2007 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of T19743. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

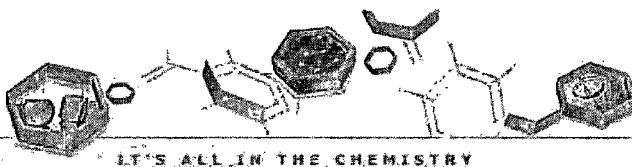
Matrix AQ	Batch ID: VZ1839
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19770-18MS, T19770-18MSD were used as the QC samples indicated.
- T19743-3 for Toluene: Confirmed by reanalysis.

Matrix AQ	Batch ID: VZ1841
------------------	-------------------------

- All method blanks for this batch meet method specific criteria.
- Sample(s) T19743-1MS, T19743-1MSD were used as the QC samples indicated.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used



IT'S ALL IN THE CHEMISTRY



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: HAMNER MW-1
 Lab Sample ID: T19743-1
 Matrix: AQ - Ground Water
 Method: SW846 8260B
 Project: EPFS San Juan Basin Groundwater Site

Date Sampled: 11/13/07
 Date Received: 11/15/07
 Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0036259.D	1	11/27/07	LJ	n/a	n/a	VZ1841
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.7	2.0	0.23	ug/l	
108-88-3	Toluene	0.79	2.0	0.54	ug/l	J
100-41-4	Ethylbenzene	13.3	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	16.5	6.0	1.1	ug/l	
95-47-6	o-Xylene	0.95	2.0	0.48	ug/l	J
	m,p-Xylene	15.5	4.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-125%
17060-07-0	1,2-Dichloroethane-D4	104%		69-128%
2037-26-5	Toluene-D8	112%		80-121%
460-00-4	4-Bromofluorobenzene	104%		69-142%

ND = Not detected MDL - Method Detection Limit
 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: HAMNER MW-4
 Lab Sample ID: T19743-2
 Matrix: AQ - Ground Water
 Method: SW846 8260B
 Project: EPFS San Juan Basin Groundwater Site

Date Sampled: 11/13/07
 Date Received: 11/15/07
 Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0036260.D	1	11/27/07	LJ	n/a	n/a	VZ1841
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.23	ug/l	
108-88-3	Toluene	ND	2.0	0.54	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.1	ug/l	
95-47-6	o-Xylene	ND	2.0	0.48	ug/l	
	m,p-Xylene	ND	4.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-125%
17060-07-0	1,2-Dichloroethane-D4	102%		69-128%
2037-26-5	Toluene-D8	115%		80-121%
460-00-4	4-Bromofluorobenzene	108%		69-142%

ND = Not detected MDL - Method Detection Limit
 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: 131107TB01 TRIP BLANK
 Lab Sample ID: T19743-3
 Matrix: AQ - Trip Blank Water
 Method: SW846 8260B
 Project: EPFS San Juan Basin Groundwater Site

Date Sampled: 11/13/07
 Date Received: 11/15/07
 Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z0036235.D	1	11/26/07	LJ	n/a	n/a	VZ1839
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

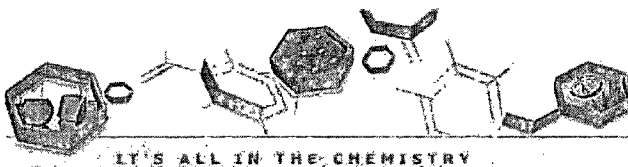
CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.23	ug/l	
108-88-3	Toluene ^a	1.6	2.0	0.54	ug/l	J
100-41-4	Ethylbenzene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.1	ug/l	
95-47-6	o-Xylene	ND	2.0	0.48	ug/l	
	m,p-Xylene	ND	4.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-125%
17060-07-0	1,2-Dichloroethane-D4	89%		69-128%
2037-26-5	Toluene-D8	115%		80-121%
460-00-4	4-Bromofluorobenzene	111%		69-142%

(a) Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
 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

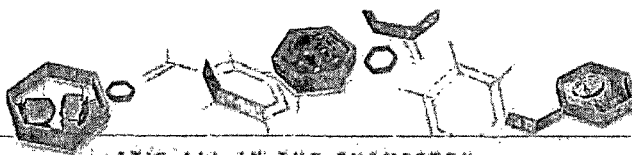


10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accufest.com

FED-EX Tracking # 96094410282				Bottle Order Control #			
Accutest Order #				Accutest Job # T19743			
Requested Analysis				Matrix Codes			
13754 8021 3 3 28 m				DW - Drinking Water			
				GW - Ground Water			
				WW - Water			
				SW - Surface Water			
				SO - Soil			
				SL - Sludge			
				OI - Oil			
				LIO - Other Liquid			
				AIR - Air			
				SOL - Other Solid			
WP - Waste							
LAB USE ONLY							
Comments / Remarks							
11-15-07 Date Time Date Time Date Time							
Received by 2 Received by 4							
Preserved where applicable <input type="checkbox"/>							
On fire <input checked="" type="checkbox"/>							
Cooler Temp 14.0							

4.4.1

Page 1 of 2



GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

Job Number: T19743

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1839-MB	Z0036227.D	1	11/26/07	LJ	n/a	n/a	VZ1839

The QC reported here applies to the following samples:

Method: SW846 8260B

T19743-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.48	ug/l	
108-88-3	Toluene	ND	2.0	0.54	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.1	ug/l	
	m,p-Xylene	ND	4.0	1.1	ug/l	
95-47-6	o-Xylene	ND	2.0	0.48	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	76-125%
17060-07-0	1,2-Dichloroethane-D4	89%	69-128%
2037-26-5	Toluene-D8	115%	80-121%
460-00-4	4-Bromofluorobenzene	108%	69-142%

Method Blank Summary

Page 1 of 1

Job Number: T19743

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1841-MB	Z0036256.D	1	11/27/07	LJ	n/a	n/a	VZ1841

The QC reported here applies to the following samples:

Method: SW846 8260B

T19743-1, T19743-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.48	ug/l	
108-88-3	Toluene	ND	2.0	0.54	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.1	ug/l	
	m,p-Xylene	ND	4.0	1.1	ug/l	
95-47-6	o-Xylene	ND	2.0	0.48	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	76-125%
17060-07-0	1,2-Dichloroethane-D4	95%	69-128%
2037-26-5	Toluene-D8	116%	80-121%
460-00-4	4-Bromofluorobenzene	109%	69-142%

Blank Spike Summary

Page 1 of 1

Job Number: T19743

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1839-BS	Z0036226.D	1	11/26/07	LJ	n/a	n/a	VZ1839

The QC reported here applies to the following samples:

Method: SW846 8260B

T19743-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	21.6	86	73-121
100-41-4	Ethylbenzene	25	22.4	90	75-117
108-88-3	Toluene	25	25.9	104	75-119
1330-20-7	Xylene (total)	75	66.5	89	75-118
	m,p-Xylene	50	44.5	89	75-119
95-47-6	o-Xylene	25	22.0	88	74-117

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	76-125%
17060-07-0	1,2-Dichloroethane-D4	86%	69-128%
2037-26-5	Toluene-D8	114%	80-121%
460-00-4	4-Bromofluorobenzene	109%	69-142%

Blank Spike Summary

Page 1 of 1

Job Number: T19743

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ1841-BS	Z0036255.D	1	11/27/07	LJ	n/a	n/a	VZ1841

The QC reported here applies to the following samples:

Method: SW846 8260B

T19743-1, T19743-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.9	100	73-121
100-41-4	Ethylbenzene	25	25.9	104	75-117
108-88-3	Toluene	25	29.3	117	75-119
1330-20-7	Xylene (total)	75	74.7	100	75-118
	m,p-Xylene	50	50.1	100	75-119
95-47-6	o-Xylene	25	24.6	98	74-117

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	76-125%
17060-07-0	1,2-Dichloroethane-D4	94%	69-128%
2037-26-5	Toluene-D8	114%	80-121%
460-00-4	4-Bromofluorobenzene	106%	69-142%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T19743

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19770-18MS	Z0036246.D	50	11/26/07	LJ	n/a	n/a	VZ1839
T19770-18MSD	Z0036247.D	50	11/26/07	LJ	n/a	n/a	VZ1839
T19770-18	Z0036245.D	50	11/26/07	LJ	n/a	n/a	VZ1839

The QC reported here applies to the following samples:

Method: SW846 8260B

T19743-3

CAS No.	Compound	T19770-18 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4550	1250	5640	87	5570	82	1	74-125/18
100-41-4	Ethylbenzene	2140	1250	3330	95	3240	88	3	77-119/20
108-88-3	Toluene	8180	1250	9340	93	9100	74* a	3	79-119/21
1330-20-7	Xylene (total)	16900	3750	20400	93	19600	72* a	4	78-119/20
	m,p-Xylene	11900	2500	14300	96	13700	72* a	4	79-119/20
95-47-6	o-Xylene	4930	1250	6120	95	5890	77	4	76-118/21

CAS No.	Surrogate Recoveries	MS	MSD	T19770-18	Limits
1868-53-7	Dibromofluoromethane	97%	98%	97%	76-125%
17060-07-0	1,2-Dichloroethane-D4	91%	95%	95%	69-128%
2037-26-5	Toluene-D8	114%	113%	117%	80-121%
460-00-4	4-Bromofluorobenzene	104%	106%	115%	69-142%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T19743

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19743-1MS	Z0036277.D	1	11/28/07	LJ	n/a	n/a	VZ1841
T19743-1MSD	Z0036278.D	1	11/28/07	LJ	n/a	n/a	VZ1841
T19743-1	Z0036259.D	1	11/27/07	LJ	n/a	n/a	VZ1841

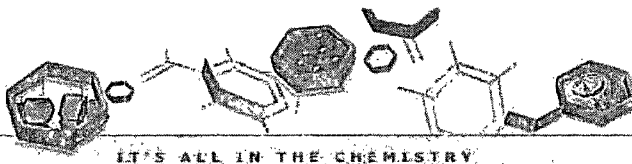
The QC reported here applies to the following samples:

Method: SW846 8260B

T19743-1, T19743-2

CAS No.	Compound	T19743-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	5.7		25	31.6	104	31.6	104	0	74-125/18
100-41-4	Ethylbenzene	13.3		25	38.7	102	38.8	102	0	77-119/20
108-88-3	Toluene	0.79	J	25	29.7	116	30.0	117	1	79-119/21
1330-20-7	Xylene (total)	16.5		75	88.1	95	90.2	98	2	78-119/20
	m,p-Xylene	15.5		50	63.5	96	64.7	98	2	79-119/20
95-47-6	o-Xylene	0.95	J	25	24.6	95	25.5	98	4	76-118/21

CAS No.	Surrogate Recoveries	MS	MSD	T19743-1	Limits
1868-53-7	Dibromofluoromethane	109%	100%	98%	76-125%
17060-07-0	1,2-Dichloroethane-D4	120%	108%	104%	69-128%
2037-26-5	Toluene-D8	118%	113%	112%	80-121%
460-00-4	4-Bromofluorobenzene	109%	102%	104%	69-142%



02/19/08

Technical Report for

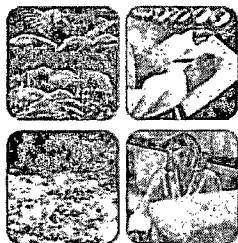
Montgomery Watson

EPFS San Juan Basin Groundwater Site

D-ALAM-GROUNDEM006

Accutest Job Number: T20864

Sampling Date: 02/12/08



Report to:


Danielwade@mwhglobal.com

ATTN: Daniel Wade

Total number of pages in report: 16



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

Client Service contact: Agnes Vicknair 713-271-4700

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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1

2

3

4

5



Sample Summary

Montgomery Watson

Job No: T20864

EPFS San Juan Basin Groundwater Site
Project No: D-ALAM-GROUNDREM006

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
T20864-1	02/12/08	12:50 TU	02/14/08	AQ Ground Water	HAMNER MW-1
T20864-2	02/12/08	12:24 TU	02/14/08	AQ Ground Water	HAMNER MW-4
T20864-3	02/12/08	07:00 TU	02/14/08	AQ Trip Blank Water	120208TB01



2

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Montgomery Watson

Job No T20864

Site: EPFS San Juan Basin Groundwater Site

Report Date 2/19/2008 4:36:23 PM

2 Samples and 1 Trip Blank were collected on 02/12/2008 and were received at Accutest on 02/14/2008 properly preserved, at 5.9 Deg. C and intact. These Samples received an Accutest job number of T20864. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ

Batch ID: VF2876

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T20862-IMS, T20862-IMSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Benzene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Probable cause due to matrix interference.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	HAMNER MW-1	Date Sampled:	02/12/08
Lab Sample ID:	T20864-1	Date Received:	02/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	EPFS San Juan Basin Groundwater Site		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0090212.D	1	02/18/08	LJ	n/a	n/a	VF2876
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7.5	2.0	0.46	ug/l	
108-88-3	Toluene	1.6	2.0	0.48	ug/l	J
100-41-4	Ethylbenzene	19.6	2.0	0.45	ug/l	
1330-20-7	Xylene (total)	32.9	6.0	1.4	ug/l	
95-47-6	o-Xylene	4.6	2.0	0.42	ug/l	
	m,p-Xylene	28.3	4.0	0.94	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-125%
17060-07-0	1,2-Dichloroethane-D4	100%		69-128%
2037-26-5	Toluene-D8	99%		80-121%
460-00-4	4-Bromofluorobenzene	104%		69-142%

ND = Not detected MDL - Method Detection Limit
 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:	HAMNER MW-4	Date Sampled:	02/12/08
Lab Sample ID:	T20864-2	Date Received:	02/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	EPFS San Juan Basin Groundwater Site		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0090211.D	1	02/18/08	LJ	n/a	n/a	VF2876
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	
95-47-6	o-Xylene	ND	2.0	0.42	ug/l	
	m,p-Xylene	ND	4.0	0.94	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		76-125%
17060-07-0	1,2-Dichloroethane-D4	98%		69-128%
2037-26-5	Toluene-D8	101%		80-121%
460-00-4	4-Bromofluorobenzene	107%		69-142%

ND = Not detected MDL - Method Detection Limit
 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

3.3



Client Sample ID:	120208TB01	Date Sampled:	02/12/08
Lab Sample ID:	T20864-3	Date Received:	02/14/08
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	EPFS San Juan Basin Groundwater Site		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0090205.D	1	02/18/08	LJ	n/a	n/a	VF2876
Run #2							

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

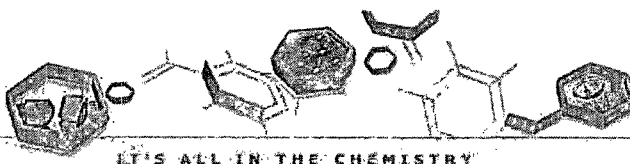
Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
108-88-3	Toluene	1.5	2.0	0.48	ug/l	J
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	
95-47-6	o-Xylene	ND	2.0	0.42	ug/l	
	m,p-Xylene	ND	4.0	0.94	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		76-125%
17060-07-0	1,2-Dichloroethane-D4	99%		69-128%
2037-26-5	Toluene-D8	101%		80-121%
460-00-4	4-Bromofluorobenzene	105%		69-142%

ND = Not detected MDL - Method Detection Limit
 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



10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accufest.com

Company Name		Client / Reporting Information		Project Information		Requested Analysis												Matrix Codes	
MWH AMERICAS, INC.				SAN JUAN BASIN GW SITE Project													DW - Drinking Water		
Address 1801 California St Ste. 2900				Street													GW - Ground Water		
City State Zip DENVER CO 80202				City State													VW - Vapor		
Project Contact Jed Smith				Project #													SU - Surface Water		
Phone # 303 291 2276				Fax #													SL - Sludge		
Sampler's Name Troy URBAN				Client Purchase Order # D-ALAB-GROUND REM 006													LQ - Other Liquid		
Account Sample #		Field ID / Point of Collection		SUMMA #		Collection		# of bottles		Number of preserved Bottles							AIR - Air		
				MECH Vid #		Date	Time	Sampled By	Matrix	# of bottles	KCI	HACH HACH HACH HACH HACH HACH HACH HACH					SOIL - Other Solid		
1	HAMNER MW-1				021208	1250	TU	WG	3	✓							WP - Wipe		
2	HAMNER MW-4				021208	1224	TU	WG	3	✓									
3	120208TBØ1				021208	0700	TU	WG	2	✓							LAB USE ONLY		
Turnaround Time (Business Days)																			
Data Deliverable Information																			
Comments / Remarks																			
<input checked="" type="checkbox"/> 10 Day STANDARD <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other _____		Approved By: / Date:		<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Tier 1 <input type="checkbox"/> TRRP13 Commercial "A" = Results Only		<input type="checkbox"/> EDD Form _____													
Emergency & Rush T/A date available VIA LabLink																			
Sample Custody must be documented below each time samples change possession, including courier delivery																			
Relinquished by Sampler: 1 [Signature] 2/13/08		Date Time: 2/13/08 1330		Received by: 1 d.vickham		Retiquished by: 2		Date Time:		Received by:									
Relinquished by: 3		Date Time: 2/14/08 10:59		Received by: 3		Reliquished by: 4		Date Time:		Received by:									
Relinquished by: 5		Date Time:		Received by: 6		Custody Seal #		Preserved where applicable <input type="checkbox"/>		On Ice <input checked="" type="checkbox"/>		Cooler Temp 5.9							

T20864: Chain of Custody
Page 1 of 3



ACCUTEST.

VARIANCE MEMO SAMPLE LOG-IN

SAMPLE(S)
PROJECT
FILED BY

3
San Juan Basin GW Site Project
AN

DATE
2/4/08
T20864

LAB NO.

VARIANCE - Check applicable items(s):

Insufficient sample sent for proper analysis; _____ received approx. _____

Sample bottle received broken and/or cap not intact. _____

Samples received without paperwork; paperwork received without samples. _____

Samples received without proper refrigeration, when it has been _____

deemed necessary. Temperature at receipt: _____

Illegible sample number or label missing from bottle. _____

Numbers on sample not the same as numbers on paper work. _____

Incomplete instructions received with sample(s) i.e., no request for analysis, no chain of custody, incomplete billing instructions, _____

no due date, etc. Temperature at receipt: _____

Samples received in improper container or lacking proper preservation. _____

Physical characteristics different than those on sampling sheets; _____

Describe: _____

Rush samples on hold because of incomplete paperwork. _____

Other (specify) Sample 3's head space is possibly too large

CORRECTIVE ACTION TAKEN

Person Contacted _____

Client informed verbally. _____

Client informed by memo/letter. _____

Samples processed as is. _____

Samples preserved by lab. _____

Client will resample and resubmit. _____

Notes: _____

By phone. _____

Samples processed for information only and noted on report. _____

Samples processed with higher detection limits accepted. _____

Samples rejected. _____

ROUTING

TITLE	DATE	INITIALS	CORRECTED?
Sample Manager:			
Login:	2/4/08	AS	
Project Manager:			
Comments:	None		

Form SMO06

SAMPLE RECEIPT LOG

JOB #: T20804 DATE/TIME RECEIVED: 2/14/08 10:50
CLIENT: MW4 AMERICAS INC. INITIALS: MV

INITIALS:

Condition/Variance (Circle "Y" for yes and "N" for no or NA. If "N" is circled, see variance for explanation):

- | | | | | | | | |
|---|----|---|---|----|---|---|--|
| 1 | 10 | N | Sample received in undamaged condition. | 2 | Y | N | Samples received within temp. range. |
| 2 | 10 | N | Sample received with proper pH. | 3 | Y | N | Sample received in proper containers. |
| 3 | 10 | N | Sample received with proper pH. | 4 | Y | N | Sample received with chain of custody. |
| 4 | 10 | N | Sample received with proper pH. | 5 | Y | N | Sample received with chain of custody. |
| 5 | 10 | N | Sample received with proper pH. | 6 | Y | N | Sample received with chain of custody. |
| 6 | 10 | N | Sample received with proper pH. | 7 | Y | N | Sample received with chain of custody. |
| 7 | 10 | N | Sample received with proper pH. | 8 | Y | N | Sample received with chain of custody. |
| 8 | 10 | N | Sample received with proper pH. | 9 | Y | N | Sample received with chain of custody. |
| 9 | 10 | N | Sample received with proper pH. | 10 | Y | N | Sample received with chain of custody. |

8. ~~NON~~ Samples Headspace acceptable

g. (Y) NA Custody seal received intact and tamper not evident on cooler.

10. ☒ N ☐ NA Custody seal received intact and tamper not evident on bottles.

SAMPLE FIELD ID	BOTTLE #	DATE SAMPLED	MATRIX	VOLUME

[illegible]

LOCATION:	WI: Walk-In	VR: Volatile Refrig.	SUB: Subcontract	EE: Encore Freezer

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NaOH 6: Other

Comments:

pH of waters checked excluding volatiles

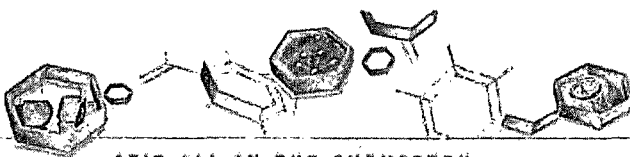
pH of spoils N/A

Delivery method: Courier:

COOLER TEMP: 5.1
COOLER TEMP: 5.1

COOLER TEMP: 24 COOLER TEMP: 24

Form: SM012, Rev.07/28/05, QAO



IT'S ALL IN THE CHEMISTRY

GC/MS Volatiles



QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

Job Number: T20864

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2876-MB	F0090204.D	1	02/18/08	LJ	n/a	n/a	VF2876

The QC reported here applies to the following samples:

Method: SW846 8260B

T20864-1, T20864-2, T20864-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	
	m,p-Xylene	ND	4.0	0.94	ug/l	
95-47-6	o-Xylene	ND	2.0	0.42	ug/l	

CAS No.	Surrogate Recoveries	Results	Limits
1868-53-7	Dibromofluoromethane	98%	76-125%
17060-07-0	1,2-Dichloroethane-D4	98%	69-128%
2037-26-5	Toluene-D8	100%	80-121%
460-00-4	4-Bromofluorobenzene	106%	69-142%

Blank Spike Summary

Page 1 of 1

Job Number: T20864

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2876-BS	F0090202.D	1	02/18/08	LJ	n/a	n/a	VF2876

The QC reported here applies to the following samples:

Method: SW846 8260B

T20864-1, T20864-2, T20864-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	22.3	89	73-121
100-41-4	Ethylbenzene	25	22.6	90	75-117
108-88-3	Toluene	25	22.4	90	75-119
1330-20-7	Xylene (total)	75	66.3	88	75-118
	m,p-Xylene	50	44.6	89	75-119
95-47-6	o-Xylene	25	21.7	87	74-117

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	76-125%
17060-07-0	1,2-Dichloroethane-D4	102%	69-128%
2037-26-5	Toluene-D8	101%	80-121%
460-00-4	4-Bromofluorobenzene	100%	69-142%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T20864

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T20862-1MS	F0090214.D	1	02/18/08	LJ	n/a	n/a	VF2876
T20862-1MSD	F0090215.D	1	02/18/08	LJ	n/a	n/a	VF2876
T20862-1	F0090208.D	1	02/18/08	LJ	n/a	n/a	VF2876

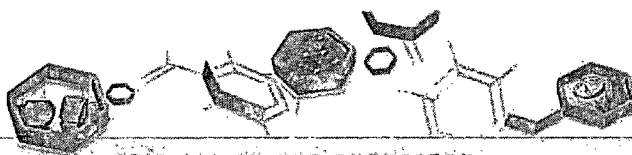
The QC reported here applies to the following samples:

Method: SW846 8260B

T20864-1, T20864-2, T20864-3

CAS No.	Compound	T20862-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	6.0		25	50.7	179*	49.1	172*	3	74-125/18
100-41-4	Ethylbenzene	0.71	J	25	24.8	96	23.8	92	4	77-119/20
108-88-3	Toluene	ND		25	23.6	94	22.8	91	3	79-119/21
1330-20-7	Xylene (total)	ND		75	71.8	96	69.3	92	4	78-119/20
	m,p-Xylene	ND		50	48.0	96	46.3	93	4	79-119/20
95-47-6	o-Xylene	ND		25	23.8	95	23.0	92	3	76-118/21

CAS No.	Surrogate Recoveries	MS	MSD	T20862-1	Limits
1868-53-7	Dibromofluoromethane	99%	99%	95%	76-125%
17060-07-0	1,2-Dichloroethane-D4	103%	102%	101%	69-128%
2037-26-5	Toluene-D8	101%	102%	102%	80-121%
460-00-4	4-Bromofluorobenzene	99%	100%	106%	69-142%



05/19/08

Technical Report for

Montgomery Watson

EPFS San Juan Basin Groundwater Site

Accutest Job Number: T22128

Sampling Date: 05/08/08

Report to:

Danielwade@mwhglobal.com

ATTN: Daniel Wade

Total number of pages in report: 16



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.

Client Service contact: Agnes Vicknair 713-271-4700

Paul K Canevaro

Paul Canevaro
Laboratory Director

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Test results relate only to samples analyzed.

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Sample Summary

Montgomery Watson

Job No: T22128

EPFS San Juan Basin Groundwater Site

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
T22128-1	05/08/08	08:24 TU	05/09/08	AQ Ground Water	HAMNER 9 MW-1
T22128-2	05/08/08	08:30 TU	05/09/08	AQ Ground Water	HAMNER 9 MW-59



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Montgomery Watson

Job No T22128

Site: EPFS San Juan Basin Groundwater Site

Report Date 5/19/2008 4:16:56 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 05/08/2008 and were received at Accutest on 05/09/2008 without proper refrigeration, at 8.2 Deg. C and intact. These Samples received an Accutest job number of T22128. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

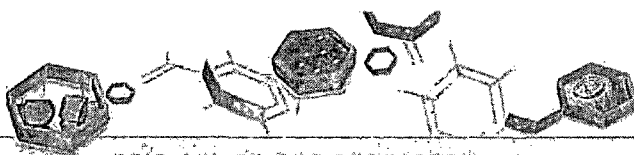
Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method SW846 8021B

Matrix AQ	Batch ID: GKK1301
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T22119-6MS, T22119-6MSD were used as the QC samples indicated.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used



IT'S ALL IN THE CHEMISTRY



Sample Results

Report of Analysis

Report of Analysis

3.1
3.1

Client Sample ID: HAMNER 9 MW-1

Lab Sample ID: T22128-1

Date Sampled: 05/08/08

Matrix: AQ - Ground Water

Date Received: 05/09/08

Method: SW846 8021B

Percent Solids: n/a

Project: EPFS San Juan Basin Groundwater Site

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK025753.D	1	05/14/08	JH	n/a	n/a	GKK1301
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.3	1.0	0.21	ug/l	
108-88-3	Toluene	5.8	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	17.4	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	51.0	2.0	0.55	ug/l	
95-47-6	o-Xylene	12.1	1.0	0.55	ug/l	
	m,p-Xylene	38.9	1.0	0.66	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		35-148%
98-08-8	aaa-Trifluorotoluene	108%		46-160%

ND = Not detected MDL - Method Detection Limit
 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:	HAMNER 9 MW-59	Date Sampled:	05/08/08
Lab Sample ID:	T22128-2	Date Received:	05/09/08
Matrix:	AQ - Ground 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	KK025754.D	1	05/14/08	JH	n/a	n/a	GKK1301
Run #2							

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

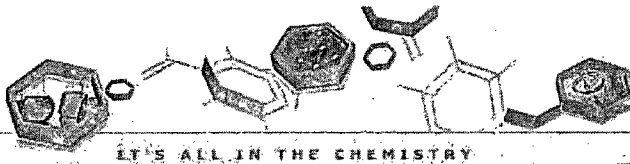
Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.4	1.0	0.21	ug/l	
108-88-3	Toluene	5.8	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	17.4	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	51.3	2.0	0.55	ug/l	
95-47-6	o-Xylene	12.1	1.0	0.55	ug/l	
	m,p-Xylene	39.2	1.0	0.66	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		35-148%
98-08-8	aaa-Trifluorotoluene	106%		46-160%

ND = Not detected MDL - Method Detection Limit
 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



CHAIN OF CUSTODY

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED EX Tracking # 865202078690	Bottle Order Control #
Accutest Quota # 865202078690	Accutest Job # T22128

Client / Reporting Information			Project Information			Requested Analysis										Matrix Codes																																							
Company Name MWH Americas			Project Name San Juan Basin GW Sites Project													DW - Drinking Water																																							
Address 1801 California St, Ste 2900			Street													GW - Ground Water																																							
City State Zip Denver CO 80202			City State													WW - Water																																							
Project Contact Jed Smith			Project #													SW - Surface Water																																							
Phone # 303-291-2176			Fax #													SO - Soil																																							
Sampler's Name Troy URBAN			Client Purchase Order # D-ALAB- Ground REM-006													SL - Sludge																																							
Accutest Sample #	Field ID / Point of Collection	SUMMA # MEOH Vol #	Collection										Number of preserved Bottles										LAB USE ONLY																																
			Date	Time	Sampled By	Matrix	# of bottles	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20																											
1	Hammer 9 MW-1		050808	0830	TU	GW	3	3																																															
2	Hammer 9 MW-59		050808	0830	TU	GW	3	3																																															
Turnaround Time (Business Days)			Data Deliverable Information			Comments / Remarks																																																	
<input checked="" type="checkbox"/> 10 Day STANDARD <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other			Approved By / Date:			<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Tier 1 <input type="checkbox"/> TRAP13 Commercial "A" = Results Only										<input type="checkbox"/> EDI Format																																							
Emergency & Rush TIA data available VIA LabLink																																																							
Relinquished by Sampler: Troy Urban 5/8/07			Date Time 5/8/07 1315			Received by: 1										Relinquished by: 2										Date Time 2																													
Relinquished by:			Date Time			Received by: 3										Relinquished by:										Date Time 4																													
Relinquished by:			Date Time			Received by: 5 Cassie Escott										Custody Seal #										Preserved when applicable <input type="checkbox"/>										On Ice 8-2										Cooler Temp.									

T22128: Chain of Custody
Page 1 of 4

VARIANCE MEMO SAMPLE LOG-IN			
ACCUTEST. SAMPLE(S) <u>Ball</u> PROJECT <u>San Juan Basin GW Sites Project</u> FILED BY <u>CNE</u>	DATE <u>5/19/08</u> LAB NO. <u>TN178</u>		
VARIANCE - Check applicable items(s):			
<input type="checkbox"/> Insufficient sample sent for proper analysis;	<input type="checkbox"/> received approx.		
<input type="checkbox"/> Sample bottle received broken and/or cap not intact.			
<input type="checkbox"/> Samples received without paperwork; paperwork received without samples.			
<input checked="" type="checkbox"/> Samples received without proper refrigeration, when it has been deemed necessary. Temperature at receipt: <u>8-20°</u>			
<input type="checkbox"/> Illegible sample number or label missing from bottle.			
<input type="checkbox"/> Numbers on sample not the same as numbers on paper work.			
<input type="checkbox"/> Incomplete instructions received with sample(s) i.e., no request for analysis, no chain of custody, incomplete billing instructions, no due date, etc.	Temperature at receipt: _____		
<input type="checkbox"/> Samples received in improper container or lacking proper preservation.			
<input type="checkbox"/> Physical characteristics different than those on sampling sheets;			
Describe: _____			
<input checked="" type="checkbox"/> Rush samples on hold because of incomplete paperwork. <input checked="" type="checkbox"/> Other (specify) <u>Samples would with very little ice and not by temp range @ temp: 8.2°C</u>			
CORRECTIVE ACTION TAKEN			
<u>JED Smith</u> Person Contacted <input checked="" type="checkbox"/> By phone.			
<input checked="" type="checkbox"/> Client informed verbally <u>V/m</u>	<input type="checkbox"/> Samples processed for information only and noted on report.		
<input type="checkbox"/> Client informed by memo/letter.	<input type="checkbox"/> Samples processed with higher detection limits accepted.		
<input type="checkbox"/> Samples processed as is.	<input type="checkbox"/> Samples rejected.		
<input type="checkbox"/> Samples preserved by lab.			
<input type="checkbox"/> Client will resample and resubmit.			
Notes: <u>See JED Analyze 4/15</u>			
ROUTING			
TITLE	DATE	INITIALS	CORRECTED?
Sample Manager:			
Log in:	<u>5/13/08</u>	<u>[Signature]</u>	
Project Manager:			
Comments:			

Form S-0025

T22128: Chain of Custody

Page 3 of 4

This portion can be removed for Recipient's use

865202078690

no 5/6/08 FedEx Tracking

Phone 170

Order's name Ashley Ayers

Company Lindstar

Address 1588 CR 204

State - Zip 81302

City Durango

For Internal Billing Reference

T22128

4.1
4

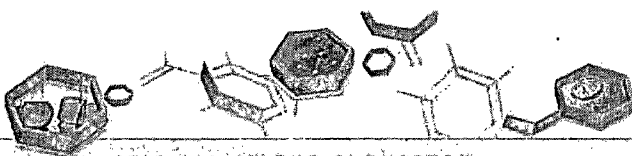
ACCUTEST LABORATORIES
CUSTODY SEAL CUSTODY SEAL

DATE / TIME SEALED: 5/8/08

ACCUTEST LABORATORIES
CUSTODY SEAL CUSTODY SEAL

3/5 INITIALS: TU





IT'S ALL IN THE CHEMISTRY

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

Job Number: T22128

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1301-MB	KK025727.D1		05/14/08	JH	n/a	n/a	GKK1301

The QC reported here applies to the following samples:

Method: SW846 8021B

T22128-1, T22128-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	
95-47-6	o-Xylene	ND	1.0	0.55	ug/l	
	m,p-Xylene	ND	1.0	0.66	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	89% 35-148%
98-08-8	aaa-Trifluorotoluene	96% 46-160%

Blank Spike Summary

Page 1 of 1

Job Number: T22128

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1301-BS	KK025728.D1		05/14/08	JH	n/a	n/a	GKK1301

The QC reported here applies to the following samples:

Method: SW846 8021B

T22128-1, T22128-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.6	98	73-126
100-41-4	Ethylbenzene	20	20.6	103	74-120
108-88-3	Toluene	20	20.3	102	77-124
1330-20-7	Xylenes (total)	60	61.9	103	78-123
95-47-6	o-Xylene	20	20.6	103	78-120
	m,p-Xylene	40	41.3	103	75-122

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	93%	35-148%
98-08-8	aaa-Trifluorotoluene	98%	46-160%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T22128

Account: MWHSLCUT Montgomery Watson

Project: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T22119-6MS	KK025734.D	5	05/14/08	JH	n/a	n/a	GKK1301
T22119-6MSD	KK025735.D	5	05/14/08	JH	n/a	n/a	GKK1301
T22119-6	KK025733.D	5	05/14/08	JH	n/a	n/a	GKK1301

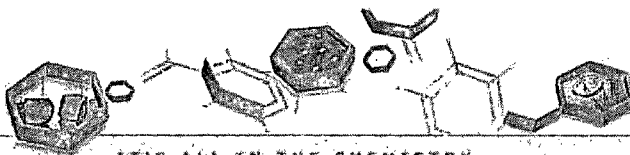
The QC reported here applies to the following samples:

Method: SW846 8021B

T22128-1, T22128-2

CAS No.	Compound	T22119-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	183		100	273	90	264	81	3	52-152/19
100-41-4	Ethylbenzene	21.6		100	127	105	121	99	5	54-147/19
108-88-3	Toluene	13.5		100	116	103	111	98	4	43-169/24
1330-20-7	Xylenes (total)	37.5		300	360	108	345	103	4	69-139/12
95-47-6	o-Xylene	5.4		100	112	107	107	102	5	60-145/19
	m,p-Xylene	32.0		200	248	108	238	103	4	61-144/17

CAS No.	Surrogate Recoveries	MS	MSD	T22119-6	Limits
460-00-4	4-Bromofluorobenzene	97%	97%	94%	35-148%
98-08-8	aaa-Trifluorotoluene	130%	137%	141%	46-160%



IT'S ALL IN THE CHEMISTRY.

09/09/08

Technical Report for

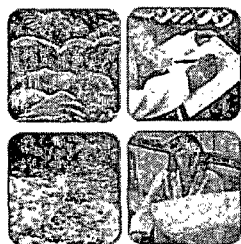
Montgomery Watson

EPFS San Juan Basin Groundwater Site

D-ALAB-Ground REM-006

Accutest Job Number: T23612

Sampling Date: 08/26/08



Report to:

Danielwade@mwhglobal.com

ATTN: Daniel Wade

Total number of pages in report: 20



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.

Paul K. Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Agnes Vicknair 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Sample Summary

Montgomery Watson

Job No: T23612

EPFS San Juan Basin Groundwater Site
Project No: D-ALAB-Ground REM-006

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T23612-1	08/26/08	10:52 TU	08/27/08	AQ	Ground Water	HAMMER #9 MW-4
T23612-2	08/26/08	11:24 TU	08/27/08	AQ	Ground Water	HAMMER #9 MW-1



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Montgomery Watson

Job No T23612

Site: EPFS San Juan Basin Groundwater Site

Report Date 9/9/2008 6:36:17 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 08/26/2008 and were received at Accutest on 08/27/2008 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of T23612. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method SW846 8021B

Matrix AQ

Batch ID: F:GQQ1469

- ▣ T23612-2: All hits confirmed by dual column analysis. Analysis performed at Accutest Laboratories, Orlando, FL.
- ▣ T23612-1: Analysis performed at Accutest Laboratories, Orlando, FL.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest Laboratories Gulf Coast, Inc.

Job No: T23612

Site: MWHSLCUT: EPFS San Juan Basin Groundwater Site

Report Date 9/9/2008 10:50:30 AM

2 Samples were collected on 08/26/2008 and received at Accutest on 08/27/2008 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of T23612. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method SW846 8021B

Matrix: AQ

Batch ID: GQQ1469

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) T23659-4MS, T23659-4MSD were used as the QC samples indicated.

RPD(s) for MSD for Benzene, Ethylbenzene, Toluene, Xylenes (total) are outside control limits for sample T23659-4MSD.

Probable cause due to sample homogeneity.

T23612-2: All hits confirmed by dual column analysis.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Svetlana Izosimova, QAO (signature on file)

Date: September 09, 2008



LET'S ALL IN THE CHEMISTRY



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: HAMMER #9 MW-4

Lab Sample ID: T23612-1

Date Sampled: 08/26/08

Matrix: AQ - Ground Water

Date Received: 08/27/08

Method: SW846 8021B

Percent Solids: n/a

Project: EPFS San Juan Basin Groundwater Site

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038870.D	1	09/05/08	AFL	n/a	n/a	F:GQQ1469
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
 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: HAMMER #9 MW-1

Lab Sample ID: T23612-2

Date Sampled: 08/26/08

Matrix: AQ - Ground Water

Date Received: 08/27/08

Method: SW846 8021B

Percent Solids: n/a

Project: EPFS San Juan Basin Groundwater Site

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038871.D	1	09/05/08	AFL	n/a	n/a	F:GQQ1469
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

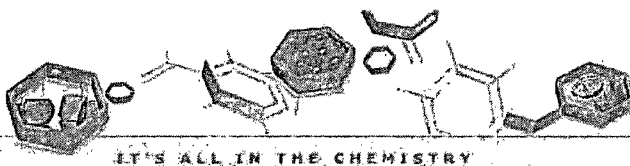
CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.7	1.0	0.50	ug/l	
108-88-3	Toluene	1.5	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	15.6	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	17.2	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	100%		73-118%

(a) All hits confirmed by dual column analysis. Analysis performed at Accutest Laboratories, Orlando, FL.

ND = Not detected MDL - Method Detection Limit
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

CHAIN OF CUSTODY

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #
8658 9996 3510
Accutest Quote #

Bottle Order Control #	
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Accutest Job # T23612

[illegible]

4.1 4

T23612: Chain of Custody

Page 1 of 4



CHAIN OF CUSTODY

10165 Harwin Drive, Ste. 150, Houston, TX 77036
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FED-EX Tracking #
8658 49963570
Accutest Quote #

Bottle Order Control #

Accutest Job #
T23612

Client / Reporting Information			Project Information			Requested Analysis										Matrix Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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bottles	Q	W	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24	W25	W26	W27	W28	W29	W30	W31	W32	W33	W34	W35	W36	W37	W38	W39	W40	W41	W42	W43	W44	W45	W46	W47	W48	W49	W50	W51	W52	W53	W54	W55	W56	W57	W58	W59	W60	W61	W62	W63	W64	W65	W66	W67	W68	W69	W70	W71	W72	W73	W74	W75	W76	W77	W78	W79	W80	W81	W82	W83	W84	W85	W86	W87	W88	W89	W90	W91	W92	W93	W94	W95	W96	W97	W98	W99	W100	W101	W102	W103	W104	W105	W106	W107	W108	W109	W110	W111	W112	W113	W114	W115	W116	W117	W118	W119	W120	W121	W122	W123	W124	W125	W126	W127	W128	W129	W130	W131	W132	W133	W134	W135	W136	W137	W138	W139	W140	W141	W142	W143	W144	W145	W146	W147	W148	W149	W150	W151	W152	W153	W154	W155	W156	W157	W158	W159	W160	W161	W162	W163	W164	W165	W166	W167	W168	W169	W170	W171	W172	W173	W174	W175	W176	W177	W178	W179	W180	W181	W182	W183	W184	W185	W186	W187	W188	W189	W190	W191	W192	W193	W194	W195	W196	W197	W198	W199	W200	W201	W202	W203	W204	W205	W206	W207	W208	W209	W210	W211	W212	W213	W214	W215	W216	W217	W218	W219	W220	W221	W222	W223	W224	W225	W226	W227	W228	W229	W230	W231	W232	W233	W234	W235	W236	W237	W238	W239	W240	W241	W242	W243	W244	W245	W246	W247	W248	W249	W250	W251	W252	W253	W254	W255	W256	W257	W258	W259	W260	W261	W262	W263	W264	W265	W266	W267	W268	W269	W270	W271	W272	W273	W274	W275	W276	W277	W278	W279	W280	W281	W282	W283	W284	W285	W286	W287	W288	W289	W290	W291	W292	W293	W294	W295	W296	W297	W298	W299	W300	W301	W302	W303	W304	W305	W306	W307	W308	W309	W310	W311	W312	W313	W314	W315	W316	W317	W318	W319	W320	W321	W322	W323	W324	W325	W326	W327	W328	W329	W330	W331	W332	W333	W334	W335	W336	W337	W338	W339	W340	W341	W342	W343	W344	W345	W346	W347	W348	W349	W350	W351	W352	W353	W354	W355	W356	W357	W358	W359	W360	W361	W362	W363	W364	W365	W366	W367	W368	W369	W370	W371	W372	W373	W374	W375	W376	W377	W378	W379	W380	W381	W382	W383	W384	W385	W386	W387	W388	W389	W390	W391	W392	W393	W394	W395	W396	W397	W398	W399	W400	W401	W402	W403	W404	W405	W406	W407	W408	W409	W410	W411	W412	W413	W414	W415	W416	W417	W418	W419	W420	W421	W422	W423	W424	W425	W426	W427	W428	W429	W430	W431	W432	W433	W434	W435	W436	W437	W438	W439	W440	W441	W442	W443	W444	W445	W446	W447	W448	W449	W450	W451	W452	W453	W454	W455	W456	W457	W458	W459	W460	W461	W462	W463	W464	W465	W466	W467	W468	W469	W470	W471	W472	W473	W474	W475	W476	W477	W478	W479	W480	W481	W482	W483	W484	W485	W486	W487	W488	W489	W490	W491	W492	W493	W494	W495	W496	W497	W498	W499	W500	W501	W502	W503	W504	W505	W506	W507	W508	W509	W510	W511	W512	W513	W514	W515	W516	W517	W518	W519	W520	W521	W522	W523	W524	W525	W526	W527	W528	W529	W530	W531	W532	W533	W534	W535	W536	W537	W538	W539	W540	W541	W542	W543	W544	W545	W546	W547	W548	W549	W550	W551	W552	W553	W554	W555	W556	W557	W558	W559	W560	W561	W562	W563	W564	W565	W566	W567	W568	W569	W570	W571	W572	W573	W574	W575	W576	W577	W578	W579	W580	W581	W582	W583	W584	W585	W586	W587	W588	W589	W590	W591	W592	W593	W594	W595	W596	W597	W598	W599	W600	W601	W602	W603	W604	W605	W606	W607	W608	W609	W610	W611	W612	W613	W614	W615	W616	W617	W618	W619	W620	W621	W622	W623	W624	W625	W626	W627	W628	W629	W630	W631	W632	W633	W634	W635	W636	W637	W638	W639	W640	W641	W642	W643	W644	W645	W646	W647	W648	W649	W650	W651	W652	W653	W654	W655	W656	W657	W658	W659	W660	W661	W662	W663	W664	W665	W666	W667	W668	W669	W670	W671	W672	W673	W674	W675	W676	W677	W678	W679	W680	W681	W682	W683	W684	W685	W686	W687	W688	W689	W690	W691	W692	W693	W694	W695	W696	W697	W698	W699	W700	W701	W702	W703	W704	W705	W706	W707	W708	W709	W710	W711	W712	W713	W714	W715	W716	W717	W718	W719	W720	W721	W722	W723	W724	W725	W726	W727	W728	W729	W730	W731	W732	W733	W734	W735	W736	W737	W738	W739	W740	W741	W742	W743	W744	W745	W746	W747	W748	W749	W750	W751	W752	W753	W754	W755	W756	W757	W758	W759	W760	W761	W762	W763	W764	W765	W766	W767	W768	W769	W770	W771	W772	W773	W774	W775	W776	W777	W778	W779	W780	W781	W782	W783	W784	W785	W786	W787	W788	W789	W790	W791	W792	W793	W794	W795	W796	W797	W798	W799	W800	W801	W802	W803	W804	W805	W806	W807	W808	W809	W810	W811	W812	W813	W814	W815	W816	W817	W818	W819	W820	W821	W822	W823	W824	W825	W826	W827	W828	W829	W830	W831	W832	W833	W834	W835	W836	W837	W838	W839	W840	W841	W842	W843	W844	W845	W846	W847	W848	W849	W850	W851	W852	W853	W854	W855	W856	W857	W858	W859	W860	W861	W862	W863	W864	W865	W866	W867	W868	W869	W870	W871	W872	W873	W874	W875	W876	W877	W878	W879	W880	W881	W882	W883	W884	W885	W886	W887	W888	W889	W890	W891	W892	W893	W894	W895	W896	W897	W898	W899	W900	W901	W902	W903	W904	W905	W906	W907	W908	W909	W910	W911	W912	W913	W914	W915	W916	W917	W918	W919	W920	W921	W922	W923	W924	W925	W926	W927	W928	W929	W930	W931	W932	W933	W934	W935	W936	W937	W938	W939	W940	W941	W942	W943	W944	W945	W946	W947	W948	W949	W950	W951	W952	W953	W954	W955	W956	W957	W958	W959	W960	W961	W962	W963	W964	W965	W966	W967	W968	W969	W970	W971	W972	W973	W974	W975	W976	W977	W978	W979	W980	W981	W982	W983	W984	W985	W986	W987	W988	W989	W990	W991	W992	W993	W994	W995	W996	W997	W998	W999	W1000	W1001	W1002	W1003	W1004	W1005	W1006	W1007	W1008	W1009	W1010	W1011	W1012	W1013	W1014	W1015	W1016	W1017	W1018	W1019	W1020	W1021	W1022	W1023	W1024	W1025	W1026	W1027	W1028	W1029	W1030	W1031	W1032	W1033	W1034	W1035	W1036	W1037	W1038	W1039	W1040	W1041	W1042	W1043	W1044	W1045	W1046	W1047	W1048	W1049	W1050	W1051	W1052	W1053	W1054	W1055	W1056	W1057	W1058	W1059	W1060	W1061	W1062	W1063	W1064	W1065	W1066	W1067	W1068	W1069	W1070	W1071	W1072	W1073	W1074	W1075	W1076	W1077	W1078	W1079	W1080	W1081	W1082	W1083	W1084	W1085	W1086	W1087	W1088	W1089	W1090	W1091	W1092	W1093	W1094	W1095	W1096	W1097	W1098	W1099	W1100	W1101	W1102	W1103	W1104	W1105	W1106	W1107	W1108	W1109	W1110	W1111	W1112	W1113	W1114	W1115	W1116	W1117	W1118	W1119	W1120	W1121	W1122	W1123	W1124	W1125	W1126	W1127	W1128	W1129	W1130	W1131	W1132	W1133	W1134	W1135	W1136	W1137	W1138	W1139	W1140	W1141	W1142	W1143	W1144	W1145	W1146	W1147	W1148	W1149	W1150	W1151	W1152	W1153	W1154	W1155	W1156	W1157	W1158	W1159	W1160	W1161	W1162	W1163	W1164	W1165	W1166	W1167	W1168	W1169	W1170	W1171	W1172	W1173	W1174	W1175	W1176	W1177	W1178	W1179	W1180	W1181	W1182	W1183	W1184	W1185	W1186	W1187	W1188	W1189	W1190	W1191	W1192	W1193	W1194	W1195	W1196	W1197	W1198	W1199	W1200	W1201	W1202	W1203	W1204	W1205	W1206	W1207	W1208	W1209	W1210	W1211	W1212	W1213	W1214	W1215	W1216	W1217	W1218	W1219	W1220	W1221	W1222	W1223	W1224	W1225	W1226	W1227	W1228	W1229	W1230	W1231	W1232	W1233	W1234	W1235	W1236	W1237	W1238	W1239	W1240	W1241	W1242	W1243	W1244	W1245	W1246	W1247	W1248	W1249	W1250	W1251	W1252

DATE/TIME RECEIVED: 8.27.08 4:50

T23C12

JOB #:

DATE/TIME RECEIVED: 8.27.08 4:50

T23C12

JOB #:

INITIALS:

Myth + American

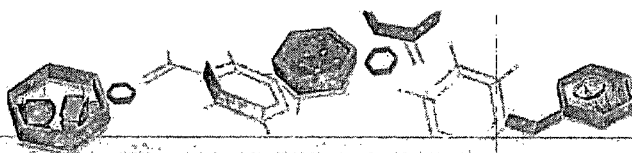
CLIENT:

[illegible]

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NaOH 6: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Solis) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

SM 012 Rev 1 7/2/2008



IT'S ALL IN THE CHEMISTRY

Misc. Forms



Custody Documents and Other Forms

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: T23612 CLIENT: A16C PROJECT: T23612
 DATE/TIME RECEIVED: 9-3-08 09:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1-4
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 7998 9895 8602

COOLER INFORMATION

- ☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
- ☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
- ☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- ☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- ☐ TEMPERATURE CRITERIA NOT MET
- ☐ WET ICE RECEIVED IN COOLER

TRIP BLANK INFORMATION

- ☐ TRIP BLANK PROVIDED
- ☒ TRIP BLANK NOT PROVIDED
- ☒ TRIP BLANK NOT ON COC
- ☐ TRIP BLANK INTACT
- ☐ TRIP BLANK NOT INTACT
- ☐ RECEIVED WATER TRIP BLANK
- ☐ RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
 NUMBER OF 5035 FIELD KITS ? 0
 NUMBER OF LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

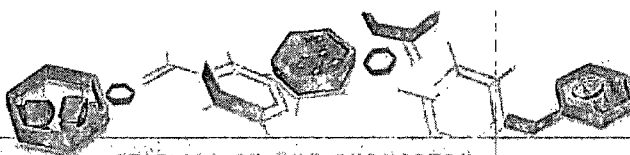
SAMPLE INFORMATION

- ☐ SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- ☐ CORRECT NUMBER OF CONTAINERS USED
- ☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
- ☐ INSUFFICIENT VOLUME FOR ANALYSIS
- ☐ TIMES ON COC DOES NOT MATCH LABEL(S)
- ☐ ID'S ON COC DOES NOT MATCH LABEL(S)
- ☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- ☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- ☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- ☐ UNCLEAR FILTERING INSTRUCTIONS
- ☐ UNCLEAR COMPOSITING INSTRUCTIONS
- ☐ SAMPLE CONTAINER(S) RECEIVED BROKEN
- ☐ % SOLIDS JAR NOT RECEIVED
- ☐ 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- ☐ RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE E.T. 9-3-08 TECHNICIAN SIGNATURE/DATE je 9-3-08 ASBD 12/17/07

T23612: Chain of Custody
 Page 2 of 2



GC Volatiles

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

Job Number: T23612

Account: ALGC Accutest Laboratories Gulf Coast, Inc.

Project: MWHSLCUT: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1469-MB	QQ038869.D1		09/05/08	TD	n/a	n/a	GQQ1469

The QC reported here applies to the following samples:

Method: SW846 8021B

T23612-1, T23612-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	94% 70-120%
98-08-8	aaa-Trifluorotoluene	97% 73-118%

Blank Spike Summary

Page 1 of 1

Job Number: T23612

Account: ALGC Accutest Laboratories Gulf Coast, Inc.

Project: MWHS LCUT: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1469-BS	QQ038868.D1		09/05/08	TD	n/a	n/a	GQQ1469

The QC reported here applies to the following samples:

Method: SW846 8021B

T23612-1, T23612-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.3	97	80-120
100-41-4	Ethylbenzene	20	19.8	99	79-121
108-88-3	Toluene	20	19.4	97	79-121
1330-20-7	Xylenes (total)	60	59.6	99	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T23612

Account: ALGC Accutest Laboratories Gulf Coast, Inc.

Project: MWHSCLUT: EPFS San Juan Basin Groundwater Site

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T23659-4MS	QQ038898.D 1		09/06/08	TD	n/a	n/a	GQQ1469
T23659-4MSD	QQ038899.D 1		09/06/08	TD	n/a	n/a	GQQ1469
T23659-4	QQ038893.D 1		09/06/08	TD	n/a	n/a	GQQ1469

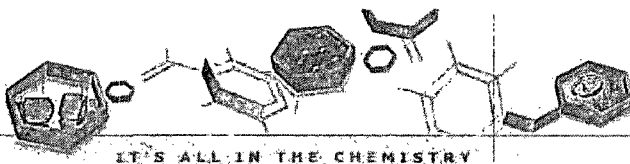
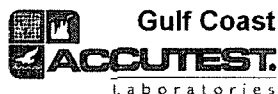
The QC reported here applies to the following samples:

Method: SW846 8021B

T23612-1, T23612-2

CAS No.	Compound	T23659-4 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	16.5	83	19.0	95	14*	80-120/10
100-41-4	Ethylbenzene	ND	20	16.8	84	19.3	97	14*	79-121/9
108-88-3	Toluene	ND	20	16.5	83	19.0	95	14*	79-121/10
1330-20-7	Xylenes (total)	ND	60	50.4	84	57.9	97	14*	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	T23659-4	Limits
460-00-4	4-Bromofluorobenzene	101%	102%	93%	70-120%
98-08-8	aaa-Trifluorotoluene	99%	99%	96%	73-118%



11/20/08

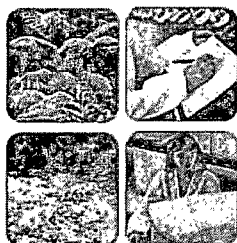
Technical Report for

Montgomery Watson

San Juan Basin GW Sites Project

Accutest Job Number: T24558

Sampling Date: 11/06/08



Report to:

daniel.a.wade@mwhglobal.com

Total number of pages in report: 15



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.

Paul K Canevaro

Paul Canevaro
Laboratory Director

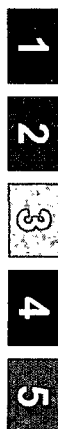
Client Service contact: Paul Canevaro 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Montgomery Watson

Job No: T24558

San Juan Basin GW Sites Project

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T24558-1	11/06/08	12:54 TU	11/07/08	AQ	Ground Water	HAMNER 9 MW-1
T24558-2	11/06/08	07:00 TU	11/07/08	AQ	Trip Blank Water	110608TB02



2

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Montgomery Watson

Job No T24558

Site: EPFS San Juan Basin Groundwater Site

Report Date 11/17/2008 9:11:54 AM

1 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 11/06/2008 and were received at Accutest on 11/07/2008 properly preserved, at 1 Deg. C and intact. These Samples received an Accutest job number of T24558. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

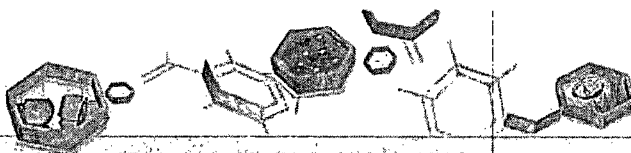
Volatiles by GCMS By Method SW846 8260B

Matrix AQ

Batch ID: VF3197

- ▣ All samples were analyzed within the recommended method holding time.
- ▣ All method blanks for this batch meet method specific criteria.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: HAMNER 9 MW-1
 Lab Sample ID: T24558-1
 Matrix: AQ - Ground Water
 Method: SW846 8260B
 Project: San Juan Basin GW Sites Project

Date Sampled: 11/06/08

Date Received: 11/07/08

Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F012005.D	1	11/16/08	RR	n/a	n/a	VF3197
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.8	2.0	0.46	ug/l	
108-88-3	Toluene	3.1	2.0	0.48	ug/l	
100-41-4	Ethylbenzene	17.5	2.0	0.45	ug/l	
1330-20-7	Xylene (total)	22.2	6.0	1.4	ug/l	
95-47-6	o-Xylene	2.9	2.0	0.42	ug/l	
	m,p-Xylene	19.3	4.0	0.94	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-122%
17060-07-0	1,2-Dichloroethane-D4	102%		75-121%
2037-26-5	Toluene-D8	111%		87-119%
460-00-4	4-Bromofluorobenzene	111%		80-133%

ND = Not detected MDL - Method Detection Limit
 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: 110608TB02
Lab Sample ID: T24558-2
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: San Juan Basin GW Sites Project

Date Sampled: 11/06/08

Date Received: 11/07/08

Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F012004.D	1	11/16/08	RR	n/a	n/a	VF3197
Run #2							

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

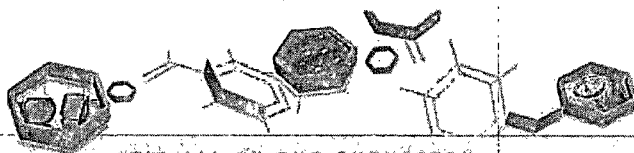
Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
100-41-4	Ethylbenzene	0.81	2.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	
95-47-6	o-Xylene	ND	2.0	0.42	ug/l	
	m,p-Xylene	ND	4.0	0.94	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-122%
17060-07-0	1,2-Dichloroethane-D4	93%		75-121%
2037-26-5	Toluene-D8	111%		87-119%
460-00-4	4-Bromofluorobenzene	105%		80-133%

ND = Not detected MDL - Method Detection Limit
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

CHAIN OF CUSTODY

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # 8670 4797 9009	Bottle Order Control #
Accutest Quote #	Accutest Job # 724558

[illegible]

4.1

T24558: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T24558 Client: MWH AMERICAS Project: SAN JUAN BASIN G-W SITES
 Date/Time Received: 11.07.08 0900 # of Coolers Received: 1 Thermometer # 110
 Cooler Temps: #1: 1.0 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____
 Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other _____
 Airbill Numbers: 8670 4797 9009

COOLER INFORMATION

☐ Custody seal missing or not intact
☐ Temperature criteria not met
☐ Wet ice received in cooler

CHAIN OF CUSTODY

☐ Chain of Custody not received
☐ Sample D/T unclear or missing
☐ Analyses unclear or missing
☐ COC not properly executed

SAMPLE INFORMATION

☐ Sample containers received broken
☐ VOC vials have headspace
☐ Sample labels missing or illegible
☐ ID on COC does not match label(s)
☐ D/T on COC does not match label(s)
☐ Sample/Bottles rec'd but no analysis on COC
☐ Sample listed on COC, but not received
☐ Bottles missing for requested analysis
☐ Insufficient volume for analysis
☐ Sample received improperly preserved

TRIP BLANK INFORMATION

☐ Trip Blank on COC but not received
☐ Trip Blank received but not on COC
☐ Trip Blank not intact
☒ Received Water Trip Blank
☐ Received Soil TB

Number of Encores? _____
 Number of 5035 kits? _____
 Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: D. B. 11.07.08

INFORMATION AND SAMPLE LABELING VERIFIED BY: Susan Hail 11.7.08

CORRECTIVE ACTIONS

Client Representative Notified: _____

Date: _____

By Accutest Representative: _____

Via: Phone Email

Client Instructions:

T24558: Chain of Custody

Page 2 of 3

DATE/TIME RECEIVED: 11.07.08

CLIENT:

INITIALS:

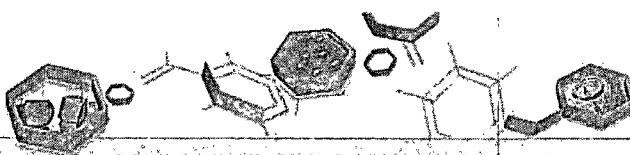
[illegible]

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NaOH 6: DI 7: MeOH 8: Other

LOCATION: 1. Walk-In #1 (Waters) 2. Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

T24558: Chain of Custody

Page 3 of 3



IT'S ALL IN THE CHEMISTRY.

GC/MS Volatiles



QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

Job Number: T24558
Account: MWHCODE Montgomery Watson
Project: San Juan Basin GW Sites Project

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3197-MB	F011990.D	1	11/15/08	RR	n/a	n/a	VF3197

The QC reported here applies to the following samples:

Method: SW846 8260B

T24558-1, T24558-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	
	m,p-Xylene	ND	4.0	0.94	ug/l	
95-47-6	o-Xylene	ND	2.0	0.42	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	111% 79-122%
17060-07-0	1,2-Dichloroethane-D4	112% 75-121%
2037-26-5	Toluene-D8	105% 87-119%
460-00-4	4-Bromofluorobenzene	107% 80-133%

Blank Spike Summary

Page 1 of 1

Job Number: T24558
Account: MWHCODE Montgomery Watson
Project: San Juan Basin GW Sites Project

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3197-BS	F011986.D	1	11/15/08	RR	n/a	n/a	VF3197

The QC reported here applies to the following samples:

Method: SW846 8260B

T24558-1, T24558-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.9	100	76-118
100-41-4	Ethylbenzene	25	22.4	90	75-112
108-88-3	Toluene	25	22.2	89	77-114
1330-20-7	Xylene (total)	75	68.0	91	75-111
	m,p-Xylene	50	45.1	90	75-112
95-47-6	o-Xylene	25	22.8	91	74-110

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	79-122%
17060-07-0	1,2-Dichloroethane-D4	116%	75-121%
2037-26-5	Toluene-D8	102%	87-119%
460-00-4	4-Bromofluorobenzene	100%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T24558
Account: MWHCODE Montgomery Watson
Project: San Juan Basin GW Sites Project

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24527-3MS	F012007.D	1	11/16/08	RR	n/a	n/a	VF3197
T24527-3MSD	F012008.D	1	11/16/08	RR	n/a	n/a	VF3197
T24527-3	F012003.D	1	11/16/08	RR	n/a	n/a	VF3197

The QC reported here applies to the following samples:

Method: SW846 8260B

T24558-1, T24558-2

CAS No.	Compound	T24527-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.98	J	25	23.6	90	23.8	91	1	76-118/16
100-41-4	Ethylbenzene	1.9	J	25	22.9	84	22.7	83	1	75-112/12
108-88-3	Toluene	ND		25	22.8	91	22.7	91	0	77-114/12
1330-20-7	Xylene (total)	ND		75	67.9	91	67.9	91	0	75-111/12
	m,p-Xylene	1.0	J	50	45.1	88	45.3	89	0	75-112/12
95-47-6	o-Xylene	ND		25	22.8	91	22.6	90	1	74-110/11

CAS No.	Surrogate Recoveries	MS	MSD	T24527-3	Limits
1868-53-7	Dibromofluoromethane	110%	110%	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	105%	86%	75-121%
2037-26-5	Toluene-D8	110%	109%	111%	87-119%
460-00-4	4-Bromofluorobenzene	108%	108%	105%	80-133%