3R - 190

CLOSURE REQUEST

1/09/2009



Via FedEx

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NE5-274

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.

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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



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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 resurveyed 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.

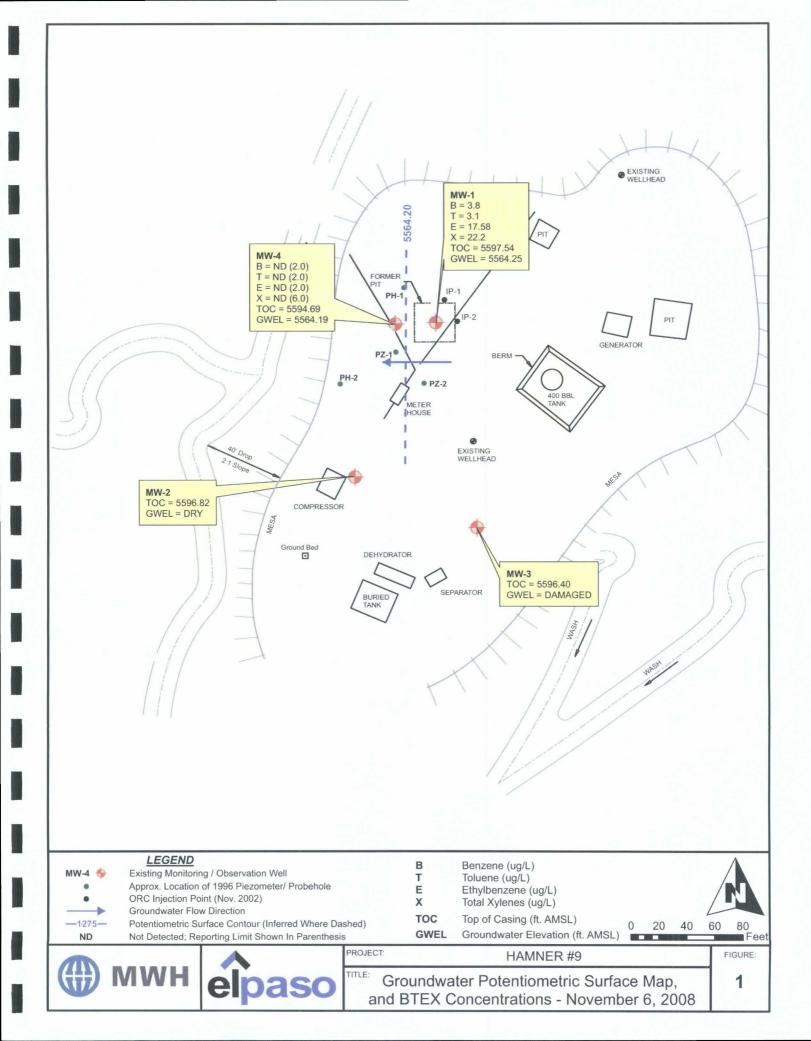
If you have any comments or questions concerning the attached correspondence, please contact me at (713) 420-5150.

Sincerely,

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





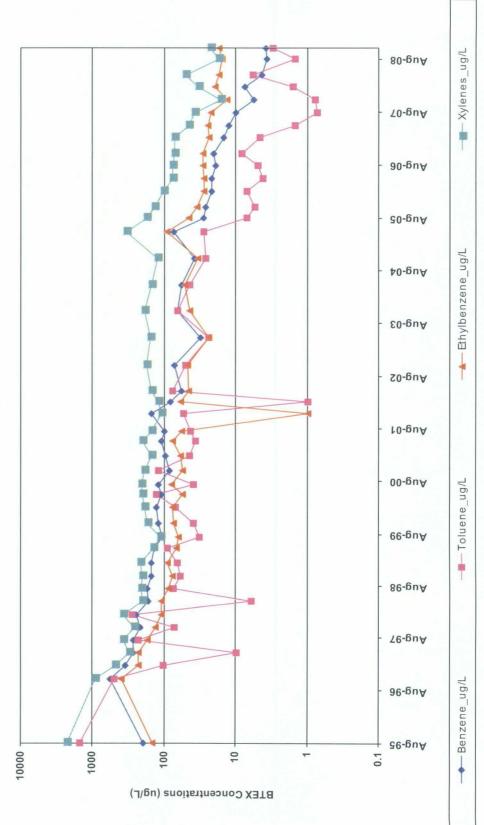


TABLE 1

Monitoring Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Wate (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	7.8	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

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

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

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TABLE 1

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

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

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

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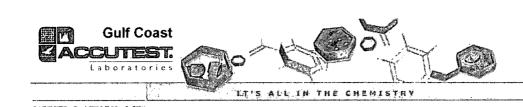
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Page 2

ATTACHMENT A

Analytical Laboratory Reports





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

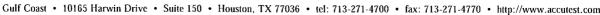


Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Ron Martino Laboratory Manager



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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Section 1: Sample Summary Section 2: Case Narrative/Conformance Summary	
Section 3: Sample Results	
3.1: T19743-1: HAMNER MW-1	6
3.2: T19743-2: HAMNER MW-4	7
3.3: T19743-3: 131107TB01 TRIP BLANK	8
Section 4: Misc. Forms	9
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Section 5: GC/MS Volatiles - QC Data Summaries	12
5.1: Method Blank Summary	13
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Sample Summary

Montgomery Watson

Job No: T19743

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

Sample Number	Collected Date	Time By	Received	Matr Code		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





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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

Γ	Matrix	AQ	Batch ID:	VZ1839
581	All samples were	e analyzed w	ithin the recommended method	holding time.
	All method blanl	ks for this ba	tch meet method specific criter	ria.
•	Sample(s) T197	70-18MS, T	19770-18MSD were used as th	e QC samples indicated.

T19743-3 for Toluene: Confirmed by reanalysis.

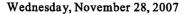
Matrix AQ	Batch ID: VZ1841	

All method blanks for this batch meet method specific criteria.

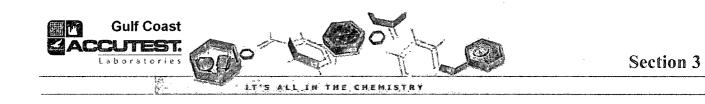
Sample(s) T19743-1MS, T19743-1MSD were used as the QC samples indicated.

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 QualityObjectives 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

Page 1 of 1



4 of 18 **CACCUTEST** T19743 Laboratories



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Sample Results

Report of Analysis

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Report of Analysis

Client San Lab Samj Matrix: Method: Project:	ple ID: T1974 AQ - Q SW84	Ground Wa 6 8260B	-	ter Site	Date Sample Date Receiv Percent Soli	ed: 11/15/07	
Run #1 Run #2	File ID Z0036259.D	DF 1	Analyzed 11/27/07	By LJ	Prep Date n/a	Prep Batch n/a	Analytical Batch VZ1841
Run #1 Run #2	Purge Volume 5.0 ml	;					
Purgeable	e Aromatics						
CAS No.	Compound		Result	RL	MDL Unit	s Q	

CAS NO.	Compound	Kesun	KL	MDL	Onits	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	Lim	its		
1868-53-7	Dibromofluoromethane	98 %		76-1	25%		
17060-07-0	1,2-Dichloroethane-D4	104%		69-1	28%		
2037-26-5	Toluene-D8	112%		80-1	21%		
460-00-4	4-Bromofluorobenzene	104%		69-1	42%		

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



Page 1 of 1

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				Repo	rt of An	alysis			Page 1 of 1
Client Sam Lab Sampl Matrix: Method: Project:							Sampled: Received nt Solids	: 11/15/07	
Run #1 Run #2	File ID Z00362	60.D	DF 1	Analyzed 11/27/07	By LJ	Prep D n/a	Date	Prep Batch n/a	Analytical Batch VZ1841
Run #1 Run #2	Purge V 5.0 ml	Volume							
Purgeable	Aromati	cs	·						
CAS No.	Comp	ound		Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 95-47-6		enzene enzene e (total) ene		ND ND ND ND ND	2.0 2.0 2.0 6.0 2.0 4.0	0.23 0.54 0.48 1.1 0.48 1.1	ug/l ug/l ug/l ug/l ug/l ug/l		
CAS No.	Surrog	gate Re	coveries	Run# 1	Run# 2	Lim	its		
1868-53-7	Dibror	nofluoro	omethane	99%		76-1	25%		

102%

115%

108%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

J = Indicates an estimated value

69-128%

80-121%

69-142%

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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		Repo	rt of An	alysis			Page 1 of 1
Client Sam Lab Sample Matrix: Method: Project:		Vater	ter Site	Date 1	Sampled: Received nt Solids	: 11/15/07	
Run #1 Run #2	File ID DF Z0036235.D 1	Analyzed 11/26/07	By LJ	Prep D n/a	Date	Prep Batch n/a	Analytical Batch VZ1839
Run #1 Run #2	Purge Volume 5.0 ml						
Purgeable A	Aromatics						
CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 95-47-6	Benzene Toluene ^a Ethylbenzene Xylene (total) o-Xylene m,p-Xylene	ND 1.6 ND ND ND ND	2.0 2.0 2.0 6.0 2.0 4.0	0.23 0.54 0.48 1.1 0.48 1.1	ug/l ug/l ug/l ug/l ug/l ug/l	J	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its		
1868-53-7 17060-07-0 2037-26-5 460-00-4	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	97% 89% 115% 111%		69-1 80-1	25% 28% 21% 42%		

(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



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Section 4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



ACCUTEST. Laboratories			10165 Harwin Drive, Ste. 150, Houston, TX 77036 TEL. 713-271-4700 FAX: 713-271-4770 www.accutest.com								Y FED-EX ØC	(Trackin D9 It Quote	9# 44/	03	282	Bottle Accu	Bottle Order Control # Accutest Job # T19743						
Chent / Reporting Information					Pr	vjeci inf	ormation	1									Re	quested /	Analysis				Matrix Codes
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BD SMITH													8										OI - Oi
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Ioler's Name		Client f	Purchase Or	der #				_					X							1			AIR - Air
MNEE		, LD	ALAF	<u>3- (</u>	arg	201							\mathbb{M}										SOL - Other Solid
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Hamper mu -1		11907	1125	m	wa	3	3	_	+	_		\square	3			_+-			_				
2 Hammer MW-4		11307	1239	m	w6	3	3						3										
3 131107TBOI Trip		111307	0700	mN	wa	2	Z		11				24	ml									
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3 Day EMERGENCY			Reduces													_							
2 Day EMERGENCY			🗘 Full Tier																				
1 Day EMERGENCY		-	C TRRP13	8																			
Other		-	0																				
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T19743: Chain of Custody Page 1 of 2

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DATETIME RECEIVED: INTTALS: Increi "" for yes and "N" for no or NA. If "N" is cipeed, see variants seved with program underwead condition. 2. N. Samples and samples and analysis on containers. Lume sufficient for analysis. 6. N. Samples and sample it with a sample it and analysis on containers. 3. N. Samples and the rule of	An European and "V" for noor Na. If "N" is of peed, see variance for explanation. Circle "Y" for yes and "V" for noor Na. If "N" is of peed are proper containers. Circle "Y" for yes and "V" for noor Na. If "N" is of peed are proper containers. Seewed with poeer performance. Control and analysis. 6. No. Sample received with chain of custody. Date sufficient for analysis. 6. No. Sample received with chain of custody. Date sufficient for analysis. 6. No. Sample received with chain of custody. Date sufficient for analysis. 6. No. Sample received impose performance. Date sufficient for analysis. 6. No. Sample received impose performance. Date sufficient for analysis. 0. Sample received impose performance. Date sufficient for analysis. 0. Sample received impose performance. Date sufficient for analysis. 0. Sample received impose performance. Date sufficient for analysis. 0. Sample received impose performance. Date sufficient for analysis. 0. Sample received mixer and sample received with chain of custody. Date sufficient for analysis. 0. Sample received more and sample received with chain of custody. 0. Sample received more and sample received with chain of custody. 1 - 7-3 1 - 7 1 - 7-3 1 - 7	1974	4			12-21	a V		
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Market Semiclent on bothes. Decarton PRESERV. BOTTLE# DATE SAMPLED MATRIX VOLUME LOCATION PRESERV. I-3 I1-13-D7 A.Q. 4.044 VTCP 1,234.56 U.c. I-3 NA L L L L 1,234.56 U.c. I-3 NA L L L L 1,234.56 U.c. I-3 NA L L L 1,234.56 U.c. I-3 NA L L L L I-3 NA L L 1,234.56 U.c. I-3 NA L 1,234.56 U.c. I-3 NA L 1,234.56 U.c. I-3 NA 1,234.56 U.c. I-3 1,234.56 U.c. 1,234.56 U.c.	ed intact and tamper not evident on bottles. # DATE SAMPLED MATRIX VOLUME LOCATION PRESERV 11-13-DT AQ 4bnL V1CP 142.34.56 u.c. 12.34.56 u.c.	Variance (Ci Sample rece Sample rece Sample volu Chain of Cu Samples He	role "Y" for yes a rived in undamage rived with proper time sufficient for rime sufficient for risody matches is adspace accepti seal received int	nd "N" for no or NA ged condition. pH. analysis. ample IDs and an able act and tamper not	L. If "N" is cip 2. 2 4. 4 6. 4 alysis on con evident on co	N Sample N Sample N Sample N Sample tainers.	ance for expla es received wit received in pr received with	nation): thin temp. ra roper contair chain of cu	nge. Ters. stody.
I-3 II-13-07 AQ 404 VTEF 1/234.56 u.c. I-3 NA L L L L u.c. I-3 NA L L L L u.c. I-34.56 u.c. 1.234.56 u.c. I-34.56 u.c.	II-13-07 A.Q. 4.but VTCF 14.34.5.6 u.c - NA L L L L 1.2.34.5.6 u.c - NA L L L L 1.2.34.5.6 u.c - NA L L L L 1.2.34.5.6 u.c - NA L L L 1.2.34.5.6 u.c - NA NA 1.2.34.5.6 u.c u.c - NA NA 1.2.34.5.6 u.c u.c - NA NA 1.2.34.5.6 u.c u.c - NA 1.2.34.5.6 u.c u.c u.c - NA 1.2.34.5.6 u.c u.c u.c - 1.2.34.5.6 u.c 1.2.34.5.6 u.c u.c - 1.2.34.5.6 u.c 1.2.34.5.6 u.c. u.c. - 1.2.34.5.6 u.c. 1.2.34.5.6 u.c. u.c. - 1.2.34.5.6 u.c.	NA Custody	/ seal received ir BOTTLE #	Itact and tamper no	ot evident on I MATRIX	ootties. volume	LOCATION	PRESERV	F
I-2 NA L L L T.734.56 U.2. 12.345.6 U.2. 12.345.6 U.2.	NA L L L L L 173,4,5,6 U, c2, 12,3,4,5,6 1,2,3,4,5,6 1,2,3,4,5,6 1, c2, 1, c2, d4,5,6 1, c2, 12,3,4,5,6 1, c2, d4,5,6 1, c2, d4,5,6 1, c2, 1, c2, d4,5,6 1, c2, 12,3,4,5,6 1, c2, d4,5,6 1, c2, d4,5,6 1, c2, 1, c2, 1, c2, 12,3,4,5,6 1, c2, d4,5,6 1, c2, d4,5,6 1, c2, 1, c2, 1, c2, 12,3,4,5,6 1, c2, 1, c2, d4,5,6 1, c2, 1, c2, 1, c2, 12,3,4,5,6 1, c2, 1, c2, d4,5,6 1, c2, 1, c2, 1, c2, 12,3,4,5,6 1, c2, 1, c2, d4,5,6 1, c2, 1, c2, 1, c2, 12,3,4,5,6 1, c2, 1, c2, 1, c2, 1, c2, 1, c2, 12,3,4,5,6 1, c2, 1, c2, 1, c2, 1, c2, 1, c2, 12,3,4,5,6 1, c2, 1, c2, 1, c2, 1, c2, 1, c2, 12,3,4,5,6 1, c2, 1, c2, 1, c2	2	1-3	11-13-07	Aù	404	ref	1 \$ 3,4,5,6	U, <2, >12, ₩
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RY 1.2.3.4.5.6 u.c.	R ⁴ 1,2,3,4,5,6 u, c2			-		5		1,2,3,4,5,6	U, <2, >12, №
1,2,3,4,5,6 u, c2	1,2,3,4,5,6 u, c2 1,2,3,4,5,6 u, c3 8ehig. SUBE subcontract 1,2,3,4,5,6 u, c3 1,2,3,4,5,6 u, c3 <td< td=""><td></td><td></td><td></td><td>4C</td><td></td><td></td><td>1,2,3,4,5,6</td><td>U, <2, >12, NA</td></td<>				4C			1,2,3,4,5,6	U, <2, >12, NA
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1,2,3,4,5,6 U, <2, >12, 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, 3,4,5,6 U, <2, 3,4,5,	1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,6 0, -2, 1,2,3,4,5,7 0, -2, 1,2,3,4,5,7 0, -2, 1,2,3,4,5,7 0, -2, 1,2,3,4,5,7 0, -2,							1,2,3,4,5,6	ų
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1.2.3,4,5,6 U, <2, >12, 3,4,5,6 U, <2, 3,4,5,5	Refnj. SUB: Subcontract 1.2.3.4.5.6 U. Refnj. 1.2.3.4.5.6 U. 1.2.3.4.5.6 U. Refnj. SUB: Subcontract EF: Encore Freezer 1.2.3.4.5.6 U. House 4: H2SO4 5: Other Comments: 1.2.3.4.5.6 U.							1,2,3,4,5,6	ų,
1,2,3,4,5,6 U, -2, -12, 1,2,3,4,5,6 U, -2, -12, -2, -12, -2, -12, -2, -22, -2	Refrig. SUB: Subcontract EF: Encore Freezer HN03 4: H2SO4 5: NAOH 6: Other Comments:							1,2,3,4,5,6	U, <2, >12, NA
. 123456 4 3 4.	Refrig. SUB: Subcontract EF: Encore Freezer HN03 4: H2SO4 5: NAOH 6: Other Comments:							1,2,3,4,5,6	U, <2, >12, NA
	Refrig. SUB: Subcontract HNO3 4: H2SO4 5: NAOH 6 Con							123456	4N '2 14 '22 '11
		A/P					-		
	Delivery method: Courier: FE COOLER TEMP: <u>7.</u> COOLER TEMP: COOLER TEM	sthod: Couri	1			COOLER TEM COOLER TEM		COOLER TEN	

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T19743: Chain of Custody Page 2 of 2



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Section 5

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QC Data Summaries

Includes the following where applicable:

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



Method Blank Summary

Job Number Account: Project:	: T19743 MWHSLCUT Mon EPFS San Juan Bas	• •	Site				Tage T
Sample VZ1839-MB	File ID DF Z0036227.D 1	Analyzed 11/26/07	By LJ	Prep I n/a	Date	Prep Batch n/a	Analytical Batch VZ1839
The QC repo T19743-3	orted here applies to th	e following sam	ples:			Method: SW	/846 8260B
CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2	Benzene	NĎ	2.0	0.23	ug/l		
100-41-4 J	Ethylbenzene	ND	2.0	0.48	ug/l		
	Toluene	ND	2.0	0.54	ug/l		
1330-20-7	Xylene (total)	ND	6.0	1.1	ug/l		

71-43-2	Benzene	NĎ	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		Limi	ts		
1000 50 7	D'I	000/		50/		

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%



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Method Blank Summary

Job Number: Account: Project:	T19743 MWHSLCUT Mo EPFS San Juan Ba	ntgomery Watson	Site			rage 1 UI
Sample VZ1841-MB	File ID DF Z0036256.D 1	Analyzed 11/27/07	By LJ	Prep Date n/a	Prep Batch n/a	Analytical Batch VZ1841
The QC repor T19743-1, T19	ted here applies to 1 743-2	he following sam	ples:		Method: SW	/846 8260B

71-43-2	Benzene	NĎ	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%



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Blank Spike Summary

Toluene

Xylene (total)

Surrogate Recoveries

4-Bromofluorobenzene

m,p-Xylene

o-Xylene

1868-53-7 Dibromofluoromethane

17060-07-0 1,2-Dichloroethane-D4

2037-26-5 Toluene-D8

108-88-3

95-47-6

CAS No.

460-00-4

1330-20-7

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Job Numbe Account: Project:	er: T19743 MWHSLCUT Mo EPFS San Juan Ba					8
Sample VZ1839-BS	File ID DF 5 Z0036226.D 1	Analyzed 11/26/07	By LJ	Prep Date n/a	Prep Batch n/a	Analytical Batch VZ1839
The QC re T19743-3	ported here applies to	the following sar	nples:		Method: SW	/846 8260B
CAS No.	Compound	Spike ug/l	BSP ug/l	BSP % Limits		
71-43-2 100-41-4	Benzene Ethylbenzene	25 25	21.6 22.4	86 73-121 90 75-117		

25

75

50

25

BSP

96%

86%

114%

109%

25.9

66.5

44.5

22.0

75-119

· 75-118

75-119

74-117

104

89 - -

89

88-

Limits

76-125%

69-128%

80-121%

69-142%

Page	1	of	1





Blank Spike Summary

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Blank Spil Job Number: Account: Project:	T19743 MWHSLCU	- T Mont <u>s</u>	gomery Watson 1 Groundwater S	Site			Page 1 of 1
Sample VZ1841-BS	File ID Z0036255.D	DF 1	Analyzed 11/27/07	By LJ	Prep Date n/a	Prep Batch n/a	Analytical Batch VZ1841
The QC repor	ted here appli	es to the	e following sam	ples:		Method: SW	/846 8260B

T19743-1, T19743-2

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%	CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
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%	71-43-2	Benzene	25	24.9	100	73-121
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%	100-41-4	Ethylbenzene	25	25.9	104	75-117
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%	108-88-3	Toluene	25	29.3	117	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%	1330-20-7	Xylene (total)	75	74.7	100	75-118
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%		m,p-Xylene	50	50.1	100	75-119
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%	95-47-6	o-Xylene	25	24.6	98	74-117
17060-07-01,2-Dichloroethane-D494%69-128%2037-26-5Toluene-D8114%80-121%	CAS No.	Surrogate Recoveries	BSP	Li	mits	
2037-26-5Toluene-D8114%80-121%	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%	460-00-4	4-Bromofluorobenzene	106%	69	-142%	



5.2

Matrix Spike/Matrix Spike Duplicate Summary

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

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Compound	T19770-18 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
Benzene	4550	1250	5640	87	5570	82	,1	74-125/18
Ethylbenzene	2140	1250	3330	95	3240	88	- 3	77-119/20
Toluene	8180	1250	9340	93	9100	74* a	3	79-119/21
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
o-Xylene	4930	1250	6120	95	5890	77	4	76-118/21
Surrogate Recoveries	MS	MSD	T19	9770-18	Limits			
Dibromofluoromethane	97%	98%	979	%	76-125%	6		
1,2-Dichloroethane-D4	91%	95%	959	%	69-128%	6		
Toluene-D8	114%	113%	117	%	80-1219	6		
4-Bromofluorobenzene	104%	106%	115	i% .	69-142%	6		
	Benzene Ethylbenzene Toluene Xylene (total) m,p-Xylene o-Xylene Surrogate Recoveries Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8	Compoundug/lQBenzene4550Ethylbenzene2140Toluene8180Xylene (total)16900m,p-Xylene11900o-Xylene4930Surrogate RecoveriesMSDibromofluoromethane97%1,2-Dichloroethane-D491%Toluene-D8114%	Compound ug/l Q ug/l Benzene 4550 1250 Ethylbenzene 2140 1250 Toluene 8180 1250 Xylene (total) 16900 3750 m,p-Xylene 11900 2500 o-Xylene 4930 1250 Surrogate Recoveries MS MSD Dibromofluoromethane 97% 98% 1,2-Dichloroethane-D4 91% 95% Toluene-D8 114% 113%	Compound ug/l Q ug/l ug/l Benzene 4550 1250 5640 Ethylbenzene 2140 1250 3330 Toluene 8180 1250 9340 Xylene (total) 16900 3750 20400 m,p-Xylene 11900 2500 14300 o-Xylene 4930 1250 6120 Surrogate Recoveries MS MSD T19 Dibromofluoromethane 97% 98% 979 1,2-Dichloroethane-D4 91% 95% 959 Toluene-D8 114% 113% 117	Compound ug/l Q ug/l ug/l ug/l % Benzene 4550 1250 5640 87 Ethylbenzene 2140 1250 3330 95 Toluene 8180 1250 9340 93 Xylene (total) 16900 3750 20400 93 m,p-Xylene 11900 2500 14300 96 o-Xylene 4930 1250 6120 95 Surrogate Recoveries MS MSD T19770-18 Dibromofluoromethane 97% 98% 97% 1,2-Dichloroethane-D4 91% 95% 95% Toluene-D8 114% 113% 117%	Compound ug/l Q ug/l ug/l <t< td=""><td>Compound ug/l Q ug/l ug/l ug/l % ug/l % Benzene 4550 1250 5640 87 5570 82 Ethylbenzene 2140 1250 3330 95 3240 88 Toluene 8180 1250 9340 93 9100 74* a Xylene (total) 16900 3750 20400 93 19600 72* a m.p-Xylene 11900 2500 14300 96 13700 72* a o-Xylene 4930 1250 6120 95 5890 77 Surrogate Recoveries MS MSD T19770-18 Limits Dibromofluoromethane 97% 98% 97% 76-125% 1,2-Dichloroethane-D4 91% 95% 95% 69-128% Toluene-D8 114% 113% 117% 80-121%</td><td>Compound ug/l Q ug/l ug/l % ug/l % RPD Benzene 4550 1250 5640 87 5570 82 1 Ethylbenzene 2140 1250 3330 95 3240 88 3 Toluene 8180 1250 9340 93 9100 74* a 3 Xylene (total) 16900 3750 20400 93 19600 72* a 4 m.p-Xylene 11900 2500 14300 96 13700 72* a 4 o-Xylene 4930 1250 6120 95 5890 77 4 Surrogate Recoveries MS MSD T19770-18 Limits </td></t<>	Compound ug/l Q ug/l ug/l ug/l % ug/l % Benzene 4550 1250 5640 87 5570 82 Ethylbenzene 2140 1250 3330 95 3240 88 Toluene 8180 1250 9340 93 9100 74* a Xylene (total) 16900 3750 20400 93 19600 72* a m.p-Xylene 11900 2500 14300 96 13700 72* a o-Xylene 4930 1250 6120 95 5890 77 Surrogate Recoveries MS MSD T19770-18 Limits Dibromofluoromethane 97% 98% 97% 76-125% 1,2-Dichloroethane-D4 91% 95% 95% 69-128% Toluene-D8 114% 113% 117% 80-121%	Compound ug/l Q ug/l ug/l % ug/l % RPD Benzene 4550 1250 5640 87 5570 82 1 Ethylbenzene 2140 1250 3330 95 3240 88 3 Toluene 8180 1250 9340 93 9100 74* a 3 Xylene (total) 16900 3750 20400 93 19600 72* a 4 m.p-Xylene 11900 2500 14300 96 13700 72* a 4 o-Xylene 4930 1250 6120 95 5890 77 4 Surrogate Recoveries MS MSD T19770-18 Limits

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



Page 1 of 1

5.3 জ্র

Matrix Spike/Matrix Spike Duplicate Summary

Job Number:	T19743
Account:	MWHSLCUT Montgomery Watson
Project:	EPFS San Juan Basin Groundwater Site

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

The QC reported here applies to the following samples:

Method: SW846 8260B

T19743-1, T19743-2

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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	T 1	9743-1	Limits			
1868-53-7	Dibromofluoromethane	109%		100%	989	%	76-125	%		
17060-07-0	1,2-Dichloroethane-D4	120%	-	108%	104	4%	69-128	%		
2037-26-5	Toluene-D8	118%		113%	112	2%	80-121	%		
460-00-4	4-Bromofluorobenzene	109%		102%	104	4%	69-142	%		



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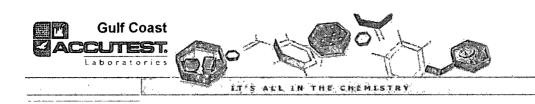
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02/19/08

Technical Report for

Montgomery Watson

EPFS San Juan Basin Groundwater Site

D-ALAM-GROUNDREM006

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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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	Matr: Code		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	a 02/12/08	07:00 TU	02/14/08	AQ	Trip Blank Water	120208TB01





SAMPLE DELIVERY GROUP CASE NARRATIVE

Report Date

Client: Montgomery Watson Job No T20864 2/19/2008 4:36:23 PM

EPFS San Juan Basin Groundwater Site Site:

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
22	All samples were analyzed within t	he recommended method	holding time.

..... All method blanks for this batch meet method specific criteria.

- Sample(s) T20862-1MS, T20862-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Benzene are outside control limits. Probable cause due to matrix interference. 83
- 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 QualityObjectives 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



Tuesday, February 19, 2008



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Section 3

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Sample Results

Report of Analysis



	Page 1 of 1						
Client Sam Lab Sample Matrix: Method: Project:	02/12/08 : 02/14/08 : n/a						
Run #1 Run #2	File ID DF F0090212.D 1	Analyzed 02/18/08	By LJ	Prep D n/a	ate	Prep Batch n/a	Analytical Batch VF2876
Run #1 Run #2	Purge Volume 5.0 ml						
Purgeable A	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	Lim	its		·
1868-53-7	Dibromofluoromethane	97%	٠	76-1	25%		
17060-07-0	1,2-Dichloroethane-D4	100%		69-1	28%		
2037-26-5							

104%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range

4-Bromofluorobenzene

460-00-4

J = Indicates an estimated value

69-142%

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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CAS No.

1868-53-7

2037-26-5

460-00-4

17060-07-0

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Report of Analysis

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Client Sam Lab Sampl Matrix: Method: Project:	le ID: T20 AQ SW	MNER MW-4 0864-2) - Ground Wa 7846 8260B FS San Juan Ba		ter Site	Date l	Sampled: Received nt Solids	: 02/14/08	
Run #1 Run #2	File ID F0090211.I	DF D 1	Analyzed 02/18/08	By LJ	Prep D n/a	ate	Prep Batch n/a	Analytical Batch VF2876
Run #1 Run #2	Purge Volu 5.0 ml	ime						
Purgeable	Aromatics							
CAS No.	Compound	d	Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 95-47-6	Benzene Toluene Ethylbenze Xylene (to o-Xylene m,p-Xylen	tal)	ND ND ND ND ND ND	2.0 2.0 2.0 6.0 2.0 4.0	0.46 0.48 0.45 1.4 0.42 0.94	ug/l ug/l ug/l ug/l ug/l ug/l		

Run#2

Limits

76-125%

69-128%

80-121%

69-142%

Run#1

96%

98%

101%

107%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range

Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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Report of Analysis

	fethod: SW846 8260B					Date Sampled: 02/12/08 Date Received: 02/14/08 Percent Solids: n/a				
Run #1 Run #2	File ID F0090205.D	D F 1	Analyzed 02/18/08	By LJ	Prep D n/a	ate	Prep Batch n/a	Analytical Batch VF2876		
Run #1 Run #2	Purge Volume 5.0 ml									
Purgeable	Aromatics									
CAS No.	Compound		Result	RL	MDL	Units	Q			
71-43-2 108-88-3 100-41-4 1330-20-7 95-47-6	Benzene Toluene Ethylbenzene Xylene (total) o-Xylene m,p-Xylene		ND 1.5 ND ND ND ND	2.0 2.0 2.0 6.0 2.0 4.0	0.46 0.48 0.45 1.4 0.42 0.94	ug/l ug/l ug/l ug/l ug/l ug/l	J			

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

ND = Not detected MDL - Method Detection Limit RL = Reporting LimitE = 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



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Misc. Forms		· .	-
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Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody

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Client / Reporting Information		Project Informati	nc	1.00						Requ	sted Ana	lysis	- 1	Matrix Codes
ompany Name	Project Name	A 1 -		~										DW - Drinking Water
MWH AMERICAS, INC.	SAN JUAN B	ASTN (<u>.</u> w	5171	<u>s lo</u>	oject	-							GW - Ground Water
1801 California St. Ste. 2900	Sheet													WW - Water
ily Stale Zin	City	State				<u></u>	-							SW - Surface Water
DENVER CO 80202														SO - Soil
Project Contact E-mail	Project #] [SL - Sludge
Jed Smith	Fax#						- d		1	1			1 1	60 - 10
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jampler's Name	Client Purchase Order #								1					AIR - Air
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	21200 1250 TU WO	631					17							
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				+		++		_						<u> </u>
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			-	1 1		┿╋							-	
Turnaround Time (Business Days)		Data Deliveral	le Intonr	nalion			1 1					/ Remarks	. Karamane e	
10 Day STANDARD Approved By: / Date:	Commercial "A"		EDD For					1		<u></u>	onneens	<u>r rteinalno</u>		<u></u>
5 Day RUSH	Commercial "B"			_										
3 Day EMERGENCY	Reduced Tier 1													
2 Day EMERGENCY	Full Tier 1													
1 Day EMERGENCY	TRRP13													
Other								1			-			
	Commerciał "A" ≠ Re	esults Unly										······		
Emergency & Rush T/A data available VIA LabLink	Como's Curindu muel ha decumentar	d balaw oast sim	- comol:	A abay -		alaa in T		1						
Relinquisted by Sampler. Receiv	Sample Custody must be documented ad by	a delaw each (imi	e sampro: Relinquis		e posses	sion, inclu	ung coun	er achvery 🔬	Date Time		Received t		<u></u> ,	
1/mg /2/13/08 1320 1		ĺ	2	,							2			
Reinquisteraty Date Time (0:50 Receiv	VIICPINNU	$\overline{\Lambda}$	Reling is	shed ny					Date T-me		Received b	φ:		
3 Telinquished by Date Time Receiv	$\Lambda VIAMAN$	΄ L	4								4			
Date Time Receiv	30 D /:		Custady	Seal #				Preserved when					Coole	er Temp 69

T20864: Chain of Custody Page 1 of 3



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Sample Manager:	CORRECTIVE ACTION TAKEN CORRECTIVE ACTION TAKEN Person Contacted Person Contacted Person Contacted Client informed verbality. Client informed by memo/letter. Samples processed as is. Samples processed as is. Client will resample and resubmit. Notes: Notes: ITTLE DATE INITIALS CORRECTIVE ACTION TAKEN Samples processed for informa- Paramples processed as is. Samples processed with higher Amples processed as is. Samples rejected. Notes: Intro Date INITIALS CORRECTED?
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T20864: Chain of Custody Page 2 of 3 4.1

HUNON # 100804	JOB # TODSOL AMEVICAL FAC	ATE/			05-11		
ance (Cir nple rece nple volui ain of Cus	Arrie of the second of the second sec	Condition/Variance (Circle "Y" for yes and "N" for no or NA. If "N" is circled, see variance for explanation): ((V) N Sample received in undamaged condition. 3. Yet AB Sample received with proper pH. 5. Yet N Sample received with chain or condition. 4. Yet N Sample received with chain or condition.	1 f "N" is circ 2 6 7 8 8	ied, see vari N Sample N Sample N Sample atmers.	ses variance for explanation): Samples received within temp, range. Sample received in proper containers. Sample received with chain of custody.	ination): thin temp. ra roper contair chain of cus	nge. Ters.
Samples Hei JA Custody s NA Custody	Samples Headspace acceptable A Custody seal received intact a NA Custody seal received intact	Samples Headspace acceptable NA Custody seal received intact and tamper not evident on cooler. VA Dustody seal received intact and tamper not evident on bottles.	evident an ca of evident an I	ooter. ootties.		ج ^ز	
	BOTTLE#	DATE SAMPLED	MATRIX			PRESERV.	Ηd
	1-3.	212908	Ð	HU MI	Wef	1.2.3,4.5,6	U, ~2. >12. NA
	1-2				4	1.2/3,4.5,6	U. <2, >12, MA
	-					1,2,3,4,5,6	U, <2, ×12, NA
		-				1,2,3,4,5,6	U, <2, >12, NA
\square		J.J.				1,2,3,4.5,6	u, <2, ≻12, NA
		SUT I V				1,2.3,4,5,6	⊔, <2, >12, NA
		NUM				1,2,3,4,5.6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
1						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4.5,6	U, <2, >12, NA
						1.2,3,4,5,6	U, <2, >12, NA
						1.2,3,4,5,6	U, <2, >12, NA
						1.2,3,4,5,6	U, <2, >12, NA
				*	Δ	1,2,3,4,5,6	U, <z, na<="" td="" ≻12,=""></z,>
						1.2.3,4.5,6	U, <2, >12. NA
		1				× 2:3,4,5,6	U, 📿, >12, NA
LOCATION: WI: Walk-In) PRESERVATIVES: 1: None	VR: Volatile Refrig. re 2: HCL 3: HNO3	 B. SUB: Subcontract 3.4: H25O4 5: NAOH 7.1 	act EF: Encore Freezer DH B: Other Commonter	e Freezer	·	/	
pH of waters checked excludin pH of soits N/A Delivery method: Courtier:_	pH of waters checked excluding volatiles pH of soils NIA Delivery method: Courier: FUR	ł		COOLER TEMP	5. 12	COOLER TEMP	
				COOLER TEMP		COOLER TEMP: Form: SM012, Rev.07/28/05,	MP: 28/05, 0AO
	:						

T20864: Chain of Custody Page 3 of 3 4.1

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Section 5

GC/MS Volatiles		··· .	<u>. </u>
QC Data Summaries			
Includes the following where a	applicable:		_



Method Blank Summary

Toluene

Xylene (total)

m,p-Xylene

o-Xylene

108-88-3

95-47-6

1330-20-7

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Job Number: Account: Project:	MWHSLCUT N	lontgomery Watson Basin Groundwater S	Site				
Sample VF2876-MB	File ID DF F0090204.D 1	Analyzed 02/18/08	By LJ	Prep I n/a	Date	Prep Batch n/a	Analytical Batch VF2876
	rted here applies to 0864-2, T20864-3	o the following sam	ples:			Method: SW	/846 8260B
CAS No. C	compound	Result	RL	MDL	Units	Q	
	enzene	ND	2.0	0.46	ug/l		
100-41-4 E	thylbenzene	ND	2.0	0.45	ug/l		

2.0

6.0

4.0

2.0

0.48

1.4

0.94

0.42

ug/l

ug/l

ug/l

ug/l

CAS No.	Surrogate Recoveries		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%

.

ND

ND

ND

ND



Page 1 of 1

Blank Spike Summary

Account: Project:	MWHSLCUT Mon EPFS San Juan Bas	0 0	Site			
Sample VF2876-BS	File ID DF F0090202.D 1	Analyzed 02/18/08	By LJ	Prep Date n/a	Prep Batch n/a	Analytical Batch VF2876
	ted here applies to th 1864-2, T20864-3	ne following sam	ples:		Method: SW	846 8260B
		Spike	BSP	BSP		

CAS No.	Compound	ug/1	ug/l	%	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	Li	mits	
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%	



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Matrix Spike/Matrix Spike Duplicate Summary Job Number: T20864

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

Sample	File ID	DF	Analyzed	Ву	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 ug/l	-1 Q	Spike ug/l	MS ug/1	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	Т2	20862-1	Limits			
1868-53-7	Dibromofluoromethane	9 9 %		99%	95	%	76-125	%		
17060-07-0	1,2-Dichloroethane-D4	103%		102%	¹ .10	1%	69-128	%		
2037-26-5	Toluene-D8	101%		102%	10	2%	80-121	%		
460-00-4	4-Bromofluorobenzene	99%		100%	10	6%	69-142	%		



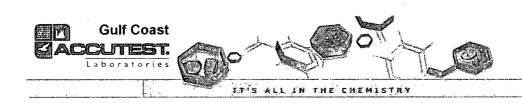
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05/19/08

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.

Paul K Carrevaro

Paul Canevaro Laboratory Director

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.

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



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Table of Contents

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Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: T22128-1: HAMNER 9 MW-1	6
3.2: T22128-2: HAMNER 9 MW-59	7
Section 4: Misc. Forms	8
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Section 5: GC Volatiles - QC Data Summaries	13
5.1: Method Blank Summary	14
5.2: Blank Spike Summary	15
5.3: Matrix Spike/Matrix Spike Duplicate Summary	16



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Sample Summary

Montgomery Watson

Job No: T22128

EPFS San Juan Basin Groundwater Site

Sample	Collected			Matr	ix	Client
Number	Date	Time By	Received	Code	Туре	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

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Γ	Matrix AQ	Batch ID:	GKK1301
_			

All samples were analyzed within the recommended method holding time.

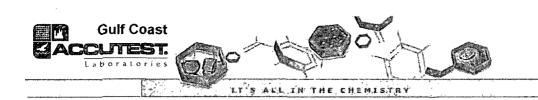
All method blanks for this batch meet method specific criteria.

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 QualityObjectives 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



Monday, May 19, 2008



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Sample Results

Report of Analysis



Accutest Laboratories

			Repo	rt of A	nalysis			Page 1 of 1
Client Sam Lab Samp Matrix: Method: Project:	le ID: T22128 AQ - G SW846	round Wa 8021B		ter Site	Date I	Sampled: Received nt Solids	: 05/09/08	
Run #1 Run #2	File ID KK025753.D	DF 1	Analyzed 05/14/08	By JH	Prep D n/a	ate	Prep Batch n/a	Analytical Batch GKK1301
Run #1 Run #2	Purge Volume 5.0 ml							
Purgeable	Aromatics							
CAS No.	Compound		Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7 95-47-6	Benzene Toluene Ethylbenzene Xylenes (total) o-Xylene		4.3 5.8 17.4 51.0 12.1	1.0 1.0 1.0 2.0 1.0	0.21 0.23 0.35 0.55 0.55	ug/l ug/l ug/l ug/l ug/l		

1.0

Run# 2

0.66

Limits

35-148%

46-160%

ug/l

38.9

Run#1

93%

108%

ND = Not detected**MDL** - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

m,p-Xylene

Surrogate Recoveries

4-Bromofluorobenzene

aaa-Trifluorotoluene

CAS No.

460-00-4

98-08-8

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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Report of Analysis

Client San Lab Samp Matrix: Method: Project:	ole ID: T22128 AQ - C SW846	Fround Wa 8 8021B		ter Site	Date I	Sampled: Received: nt Solids:	: 05/09/08	
Run #1 Run #2	File ID KK025754.D	DF 1	Analyzed 05/14/08	By JH	Prep D n/a	ate	Prep Batch n/a	Analytical Batch GKK1301
Run #1 Run #2	Purge Volume 5.0 ml							
Purgeable	Aromatics							
CAS No.	Compound		Result	RL	MDL	Units	Q	
71-43-2 108-88-3 100-41-4	Benzene Toluene Ethylbenzene		4.4 5.8 17.4	1.0 1.0 1.0	0.21 0.23 0.35	ug/l ug/l ug/l		

2.0

1.0

1.0

Run# 2

ug/l

ug/l

ug/l

0.55

0.55

0.66

Limits

35-148%

46-160%

51.3

12.1

39.2

91%

106%

Run#1

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

Xylenes (total)

Surrogate Recoveries

4-Bromofluorobenzene

aaa-Trifluorotoluene

o-Xylene

m,p-Xylene

1330-20-7

95-47-6

CAS No.

460-00-4

98-08-8

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 1

ACCUTES Laboratori	ET'S ALL IN THE CHEMISTRY	Section 4
	Misc. Forms	
	Custody Documents and Other Forms	
	Includes the following where applicable: • Chain of Custody	
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ompany Name		Project 7	lomo			oject Info									μ.	Rec	uested An	alysis	ļ	, .	Matrix Codes DW - Onniong Water
MWH_Americas		Sar	Jua	, в	sin	GI	ω	Si	les	Post	ect										GW - Ground Water
ddmae .		Street		1						0										1	WW - Water
1801 California St. Ste 290 State		City				State															SW - Surface Water
Denver Co 80	205	City				State						2								1	SO - Soli
roject Contact	E-mail	Project #										- 1	<u>ч</u>								SL - Słudge
Jed Smith												41	1						1		NO - 10
303-291-2176		Fax #										_ i≃	2								LIQ - Other Liquid
amolez's Nome		Ckent Pu	irchase Orde	er#	~							1-									AIR - Ar
TROY URBAN			<u>ALA</u>	<u>B~</u>	Gre	LL HC						72									SOL - Other Solid
Accutest Field ID / Point of Collection Sample #	SUMMA#		Collection	Complet	1				T. T	erved Bot	1 1	* 🔊									WP - Wipe
	MEOH Vial#	Date	. Inti		Matrix			K ED M	H2SO	and	H CH		¥								LAB USE ONLY
1 Hamper 9 MW-1		05080K	818	TU.	Ghí	3	3					V	1								
2 Hammer A MW-59		50808	0830	TU	GW	3	3						<u>-</u>						-		
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3 5 Day RUSH			Commerce										-								
3 Day EMERGENCY			Reduced																		
2 Day EMERGENCY			TRRP13																		
Other		· [-					·			
			Comme	ercial "A	= Res	uits Only	y						L								
mergency & Rush T/A data available VIA LabLink																					
	1.		ustody must	be docu	mented t	elow ead				posses	sion, in	cluding co	ourier deli	lerγ 🚆							
Two Ub Troy Urban 5/8/07 13	SIS 1	ived by						Relinque	hed by						Date T	те	Received	i by.			
canquester by Date		ived by.					+	Relinquis	hed by						Date T	me	Received	i by:			
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etinquished by Date 1	Time 10: 4000	7 ^{by}	<u>، ۶.</u> .					Custody	Seal #				Pres	erved wh	ere applicat	le	On Ice	8-2		Cooler Te	mp.

T22128: Chain of Custody Page 1 of 4

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	see variance for explanation); Samples received within temp. range. Sample received in proper containers. Sample received with chain of custody. rs.	PRESERV. PH	_	1,2,3,4,5.6 U. <2, >12, NA	1,2,3,4,5.6 U, <2, >12, NA	1,2,3,4.5,6 U, <2. >12. NA	1.2,3,4.5,6 U, <2, >12, NA	1,2,3,4,5,6 U, <2, >12, NA	1,2,3,4,5,6 U, <2, >12, NA	1,2,3,4,5,6 U, C, >12, NA	1,2.3,4,5,6 U, 2, >12, NA	1,2,3,4,5,6 U, <2, >12 NA	1.2,3,4,5,6 U. C. >12, NA	1.2.3,4,5.6 U, C, >12, NA	1,2,3,4,5,6 U, <2, >12, NA	1,2,3,4,5,6 U, <2, >12 NA	1,2.3,4,5.6 U, <2, >12, NA		COOLER TEMP: COOLER TEMP: COOLER TEMP: Form: SM012, Rev.07/2806, GAO	
10:40	see variance for explanation) Samples received within terr Sample received in proper ct Sample received with chain (irs.	LOCATION 1/1 TE																	80	
	circled see varia 2. CRN Sample CON Sample CON Sample containers. n cooler.		40mC				املا		:						÷.			e Freezer	COOLER TEMP.	
	. If "N" is circled 2. (2010) 4. (20 N 6. (3) N alysis on contain evident on cooler	MATRIX	DH	-			COVE											ict EF: Encore Freezel DH 6: Other Comments:		
SAMPLE REC DATE/TIME RECEIVED:	Variance (Circle "Y" for yes and "W" for no or NA. If "W" is circled se Sample received in undamaged condition. 2, 2000 S Sample received with proper pH. 4, ON Si Sample volume sufficient for analysis. 6 ON Si Chain of Custody matches sample IDs and analysis on containers. Samples Headspace acceptable NA Custody scal received intact and tamper not evident on cooler.	DATE SAMPLED	0										×					I. SUB: Subcontract 3 4: H2SO4 5: NADH C		
TEST. 18 Amultu	Variance (Circle "Y" for yes and "N" for Sample received in undamaged condi Sample received with proper pH Sample volume sufficient for analysis. Chain of Custody matches sample ID Samples Headspace acceptable A Custody seal received intact and ta M. Or condy seal received intact and ta M. S.	BOTTLE#																VR: Volatile Refrig. 2: HCL 3: HNO3 ding volatiles	Feelter	
CLIENT: MWH AMULU	Condition/Variance (Circle ^{II} / ^{II} for yes and "N" for no or NA. If (I () Sample received in undamaged condition. 3. V() Sample received with proper pH. 5. N Sample volume sufficient for analysis. 7. N Chain of Custody matches sample IDs and analys 8. N N Custody seal received intact and tamper not evic 9. N M. Custody seal received intact and tamper not evic	SAMPLE or FIELD ID	2															LOCATTON: WI: Walk-In VR: Volatile 1 PRESERVATIVES: 1: None 2: HCL 3: pH of waters checked excluding volatilies	pH of solis N/A Delivery method: Courier;	

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T22128: Chain of Custody Page 2 of 4



	SAMPLELOG-IN	
	SAMPLE(S) A11 DATE SAMPLE(S) A11 DATE SPROJECT Sam Jue (MADIM CIN) SHES HEAR WALK LAB NO. 772478	19/08
	VARIANCE - Check applicable items(s): insufficient cample cant for proper analysis.	
	Sample bottle received broken and/or cap not intact.	
<u></u>	Samples received without paper work, paper work, paper work, received without samples. Samples received without proper refrigeration, when it has been \star deemed necessary. Temperature at receipt: $8-2^{\circ}$	
., I	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) is , no request for analysis on chain of autoday, incomplete billion incriments	
	no draryses, no criant or casoory, incomprete bining insuractions, no due date, etc. Temperature at reciept:	
I I	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. 1 Other (specify) Sumpley AllUNY of With YENU, Little 101. 1) it (y temp Dome & (d temp: K, 2°C)	and
	CORRECTIVE ACTION TAKEN	
	JED Switch Person Contacted V By phone.	
<u>I</u>	it informed v orbally. V/m	or informa report
		ith higher
11	Samples preserved by lab. detection limits accepted. Client will resample and resubmit.	ted.
Re	Notes: - JED Malyse 2/23	
	BOLITING	
	TITLE DATE INITIALS CORRECTED?	
	Login: Project Manager: 5//3/2 + FF Comments:	

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T22128: Chain of Custody Page 3 of 4



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* 865202078690 722128 ACCUTEST LABORATORIE CUSTODY SEAL **ACCUTEST LABORATORIES** CUSTODY STAL CUSTODY SEAL CUSTODY SEAL DATE / TIME SEALED 5/8/08 INITIALS: TU 2/5

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T22128: Chain of Custody Page 4 of 4





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Method Blank Summary

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Job Number: Account: Project:			gomery Watson n Groundwater S	Site			-
Sample	File ID	DF	Analyzed 05/14/08	By	Prep Date	Prep Batch	Analytical Batch
GKK1301-MB	KK025727.	D1		JH	n/a	n/a	GKK1301

The QC reported here applies to the following samples:

aaa-Trifluorotoluene

Method: SW846 8021B

T22128-1, T22128-2

98-08-8

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		Limi	ts		
460-00-4	4-Bromofluorobenzene	89%	35-14	18 %		

96%

46-160%



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Blank Spike Summary

Job Number: Account: Project:	t: MWHSLCUT Montgomery Watson										
Sample	File ID	DF	Analyzed 05/14/08	By	Prep Date	Prep Batch	Analytical Batch				
GKK1301-BS	KK025728.I	D1		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	Li	mits	
460-00-4	4-Bromofluorobenzene	93%	35	-148%	
98-08-8	aaa-Trifluorotoluene	98 %		-160%	



5.2 G

Matrix Spike/Matrix Spike Duplicate Summary

Job Number:	122128
Account:	MWHSLCUT Montgomery Watson
Project:	EPFS San Juan Basin Groundwater Site

Sample T22119-6MS	File ID KK025734.	DF .D 5	Analyzed 05/14/08	By IH	Prep Date n/a	Prep Batch n/a	Analytical Batch GKK1301
T22119-6MSD			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	T2	2119-6	Limits			
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	97% 130%	97% 137%	94 14		35-148 46-160			



Page 1 of 1

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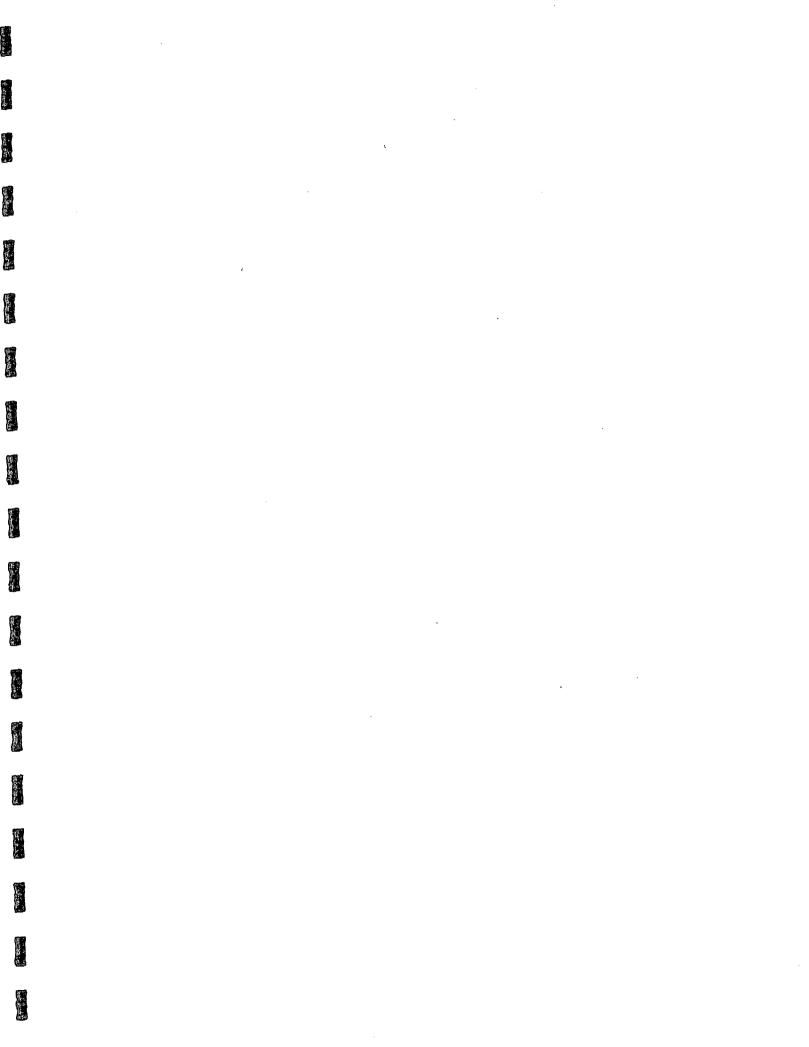
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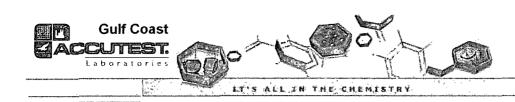
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09/09/08

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



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P. 16

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)

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

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



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No. of Concession, Name

Sample Summary

Montgomery Watson

Job No: T23612

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

Sample	Collected	د دیشی میں ہ اور ایک انجا ہیں	27	Matr	ix	Client
Number	Date	Time By	Received	Code	Туре	Sample ID
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 QualityObjectives 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

te 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.

Batch ID: GQQ1469

Volatiles by GC By Method SW846 8021B

Matrix: AQ

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





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Section 3



Sample Results

Report of Analysis



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Report of Analysis

Client San Lab Samp Matrix: Method: Project:	AQ - C SW846	Ground Wa 6 8021B		ter Site	Date Samp Date Recei Percent So	ved: 08/27/08	
Run #1 ^a Run #2	File ID QQ038870.D	DF 1	Analyzed 09/05/08	By AFL	Prep Date n/a	Prep Batch n/a	Analytical Batch F:GQQ1469
Run #1 Run #2	Purge Volume 5.0 ml						
Purgeable	Aromatics						
CAS No.	Compound		Result	RL	MDL Un	uits Q	

0/10/100.	Compound	Robult	ILL	IIID D	Onno	×
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	Lim	its	
460-00-4	4-Bromofluorobenzene	97 %		70-1	20%	
98-08-8	aaa-Trifluorotoluene	99%		73-1	18%	

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

ND = Not detected MDL - Method Detection Limit

,

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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Accutest Laboratories

1330-20-7

CAS No.

460-00-4

98-08-8

Xylenes (total)

Surrogate Recoveries

4-Bromofluorobenzene

aaa-Trifluorotoluene

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Report of Analysis

Client San Lab Samp Matrix: Method: Project:	AQ - C SW846	Ground Wa 5 8021B		ter Site	Date I	Sampled: Received nt Solids	: 08/27/08	
Run #1 ^a	File ID QQ038871.D	DF 1	Analyzed 09/05/08	By AFL	Prep D n/a	ate	Prep Batch n/a	Analytical Batch F:GQQ1469
Run #2	QQ000011.D	.	00/00/00		11/4		n/ a	1.0001403
Run #1 Run #2	Purge Volume 5.0 ml							
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		

3.0

Run# 2

1.0

Limits

70-120%

73-118%

ug/l

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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

17.2

Run#1

104%

100%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

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Section 4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



		F CUSTOD Ste. 150, Houston, TX 77036	Y FED-EX Tracking # 8658 9996 2570	Bottle Order Control #					
ACCUTEST.	TEL. 713-271-470 www.a	00 FAX: 713-271-4770 (ccutest.com	Accutest Quote #	Accutest Job # T23612					
Many Hare May Hare MUH Americas 1801 California St, Ste 2900 Denver Co 80202	Project Name Sin Juan Bisin G Street City State	or FWS.jtcs Project			Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surtecs Water				
Matt Rhoades Based - 291-2118	Project # Fax # Cheni Purchase Order # D - ACAB- Ground		I) BTEX		SQ • Soil SL • Sludge OT • Otl LIQ • Other Liquid A/R • Air				
1 Hamner#9 MW-4 08	Collection Data Time Sarped Metrix H of g By Metrix bottles g Secos (OS2 TU GW 3	Number of preserved Bottles.	16805		SOL - Other Solid WP - Wps LAB USE OHLY				
2 Hamner #9 mW-1 08	2681124 TUGW3 V								
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angulang in the second se	d by	2 Relinquished by 4 Custody Seal #	Date Time Preserved where applicable	Cooler Temp.					

T23612: Chain of Custody Page 1 of 4



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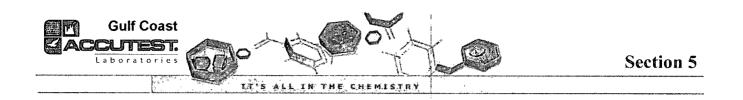
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-	T23612-2		8/26/20	308		GW		x							x									
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T23612: Chain of Custody Page 1 of 2 Accutest Laboratories Southeast, Inc.



	$wt: \underline{A16C} project: \underline{J36/2}$ coolers received: <u>cooler temps</u> <u>1.4</u> $wtest \ courser greyhound delivery other$
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 NOT ON COC TRIP BLANK NOT INTACT RECEIVED WATER TRIP BLANK RECEIVED SOIL TRIP BLANK MISC. INFORMATION TUMBER OF ENCORES ? TUMBER OF LAB FILTERED METALS ? UMMARY 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) D'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 SAMPLE CONTAINER(S) RECEIVED BROKEN % SOLIDS JAR NOT RECEIVED S035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S RESIDUAL CHLORINE PRESENT (APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)
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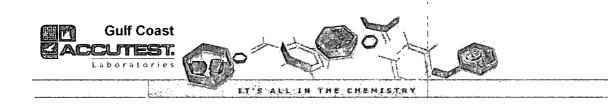
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T23612: Chain of Custody Page 2 of 2



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Section 6

GC Volatiles

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

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



Method Blank Summary

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Job Numbe Account: Project:	r: T23612 ALGC Accutest La MWHSLCUT: EPH						0
Sample GQQ1469-N	File ID DF AB QQ038869.D1	Analyzed 09/05/08	By TD	Prep I n/a	Date	Prep Batch n/a	Analytical Batch GQQ1469
The QC rep T23612-1, 7	ported here applies to tl [23612-2	ne following sam	ples:			Method: SW	/846 8021B
CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2	Benzene	ND	1.0	0.50	ug/l		
100-41-4 108-88-3	Ethylbenzene Toluene	ND ND	1.0 1.0	0.50 0.50	ug/l ug/l		
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l		

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



Page 1 of 1

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Blank Spike Summary

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Job Number: T23612 Account: ALGC Accutest Laboratories Gulf Coast, Inc. Project: MWHSLCUT: EPFS San Juan Basin Groundwater Site											
Sample GQQ1469-BS	File ID DF QQ038868.D1	Analyzed 09/05/08	By TD	Pr n/a	ep Date	Prep Batch n/a	Analytical Batch GQQ1469				
The QC repor T23612-1, T23	ted here applies to the	e following san	nples:			Method: SW	/846 8021B				
CAS No. Co	ompound	Spike ug/l	BSP ug/l	BSP %	Limits						

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	-	v	0	
71-43-2	Benzene	20	19.3	97 99 79-121
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	97 79-121 99 80-119
	-			<i>L</i>

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



Page 1 of 1

<u>6.2</u>

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23612

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Account: ALGC Accutest Laboratories Gulf Coast, Inc.

Project: MWHSLCUT: EPFS San Juan Basin Groundwater Site

Sample File ID DI T23659-4MS QQ038898.D1 T23659-4MSD QQ038899.D1 T23659-4 QQ038893.D1	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	09/06/08	TD	n/a	n/a	GQQ1469
	09/06/08	TD	n/a	n/a	GQQ1469
	09/06/08	TD	n/a	n/a	GQQ1469

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The QC reported here applies to the following samples:

Method: SW846 8021B

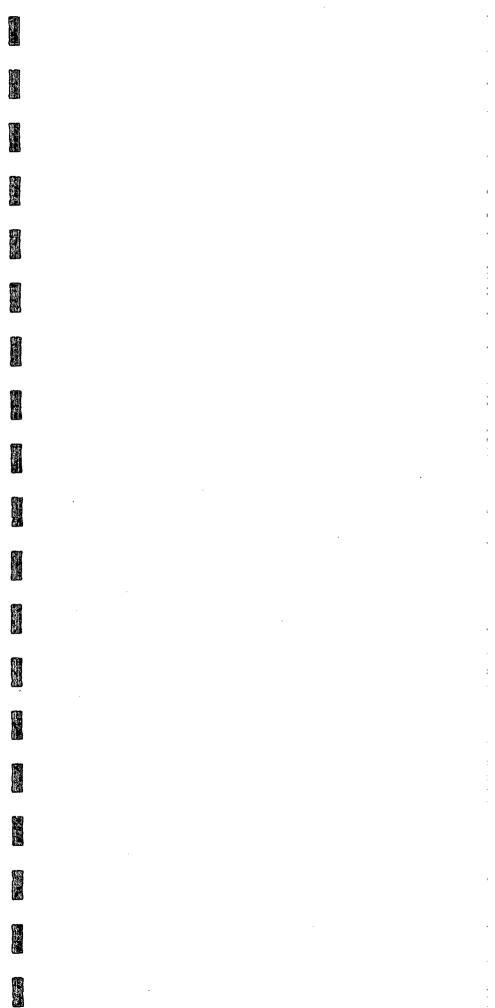
T23612-1, T23612-2

CAS	No.	Compound	T23659-4 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43	8-2	Benzene	ND	20	16.5	83	19.0	95	14*	80-120/10
100-4	1-4	Ethylbenzene	ND	20	16.8	84	19.3	97	14*	79-121/9
108-8	8-3	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	Т2	23659-4	Limits			
460-0 98-08		4-Bromofluorobenzene aaa-Trifluorotoluene	101% 99%	102% 99%	93 96	% %	70-120 73-118			

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Page 1 of 1





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.

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.

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



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ACCUTEST LABORATORIES Y E A R S 1956-2006

> accutest.com 1 of 15 **GACCUTEST** T24558

Paul K Carrevaro

Laboratory Director

Paul Canevaro

Table of Contents

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Sample Summary

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Montgomery Watson

Job No: T24558

San Juan Basin GW Sites Project

Sample	Collected			Matr		Client
Number	Date	Time By	Received	Code	е Туре	Sample ID
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	110608ŤB02

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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

I Sample(s), I 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 I 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.

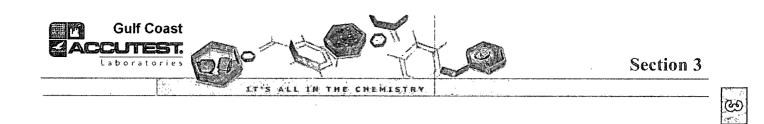
All method blanks for this batch meet method specific criteria.

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 QualityObjectives 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





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Report of Analysis	Report of Analysis	Sample Results	
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Report of Analysis	Report of Analysis		
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Report of Analysis Client Sample ID: HAMNER 9 MW-1 Lab Sample ID: T24558-1 11/06/08 Date Sampled: AQ - Ground Water Matrix: Date Received: 11/07/08 Method: SW846 8260B Percent Solids: n/a Project: San Juan Basin GW Sites Project File ID DF Analytical Batch Analyzed By Prep Date Prep Batch Run #1 F012005.D 1 11/16/08 RR VF3197 n/a n/a 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 3.8 2.0 0.46 ug/l 108-88-3 Toluene 3.1 2.0 0.48 ug/l Ethylbenzene 100-41-4 17.5 2.0 0.45 ug/l Xylene (total) 22.2 1330-20-7 6.0 1.4 ug/l o-Xylene 95-47-6 2.9 2.0 0.42 ug/l m,p-Xylene 19.3 4.0 0.94 ug/l

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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 detectedMDL - 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



Page 1 of 1

Accutest Laboratories

	Report of Analysis										
Client Sam Lab Sample Matrix: Method: Project:				Date 1	Sampled: Received nt Solids	11/07/08					
Run #1 Run #2	File ID DF F012004.D 1	Analyzed 11/16/08	By RR	Prep D n/a	Date	Prep Batch n/a	Analytical Batch VF3197				
Run #1 Run #2	Purge Volume 5.0 ml										
Purgeable A	Aromatics			·							
CAS No.	Compound	Result	RL	MDL	Units	Q					
71-43-2 108-88-3 100-41-4	Benzene Toluene Ethylbenzene	ND ND 0.81	2.0 2.0 2.0	0.46 0.48 0.45	ug/l ug/l ug/l	J					
1330-20-7 95-47-6	Xylene (total) o-Xylene m,p-Xylene	ND ND ND	6.0 2.0 4.0	1.4 0.42 0.94	ug/l ug/l ug/l						
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its						
1868-53-7 17060-07-0 2037-26-5	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8	106% 93% 111%	• ;	75-1	22% 21% 19%						

105%

ND = Not detectedMDL - Method Detection Limit

4-Bromofluorobenzene

RL = Reporting Limit

460-00-4

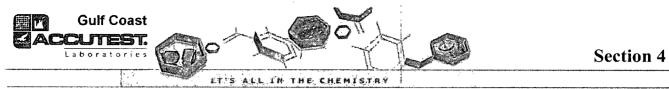
- E = Indicates value exceeds calibration range
- J = Indicates an estimated value

80-133%

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody

Misc. Forms

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30° Sampler's Na	3-291-2118 By Urban			Purchase Ord	ÄL	4 ₽ ~	bro	und	IRe	m	00	7		٦,	500										LIQ - Other Liquid AIR - Air SOL - Other Solid
Acculest Sample #	Field IO / Point of Collection	SUMMA # MEOH Val#	Date	Collection Time	Sampled By	-	# of bottles	┝	Numbe	r of pr	ésérve Z	d Bott	les ă		Z										WP - Wipe LAB USE ONLY
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T24558: Chain of Custody Page 1 of 3



contest Job Number: T2 4 558	Client: MWH A	MERICA-S Projec	1: SAN JUAN BASIN G-	W SHES
vate/Time Received: 11.07.08	# of Coolers Re			
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lethod of Delivery: FEDEX UPS	Accutest Courter G	eyhound Delivery	Other	
Irbill Numbers: 8670 4797 0	1009		· .	
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T24558: Chain of Custody Page 2 of 3

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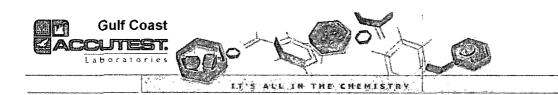
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T24558: Chain of Custody Page 3 of 3



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Section 5

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QC Data Summaries

Includes the following where applicable:

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



Method Blank Summary

Job Number: Account: Project:			omery Watson 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

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The QC reported here applies to the following samples:

Method: SW846 8260B

T24558-1, T24558-2

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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%



Page 1 of 1

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Blank Spike Summary

2037-26-5 Toluene-D8

4-Bromofluorobenzene

460-00-4

Blank Sj Job Numbe Account: Project:	r: T24558 MWHCODE	ke SummaryPage 1 ofT24558MWHCODE Montgomery WatsonSan Juan Basin GW Sites Project								
Sample VF3197-BS	File ID F011986.D			By RR		Prep Date n/a	Prep Batch n/a	Analytical Batch VF3197		
The QC rep T24558-1, T	ported here appli	es to the	following san	nples:			Method: SW	/846 8260B		
CAS No.	Compound		Spike ug/l	BSP ug/1	BSI %	e Limits				
71-43-2	Benzene		25	24.9	10 0	76-118				
100-41-4	Ethylbenzene		25	22.4	90					
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 Recov	veries	BSP	Li	mits					
1868-53-7	Dibromofluorom	ethane	107%	79	-122%					
17060-07-0	1,2-Dichloroetha	ne-D4	116%		-121%					

87-119%

80-133%

102%

100%





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Matrix Spike/Matrix Spike Duplicate Summary

Job Number:	124558
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

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The QC reported here applies to the following samples:

Method: SW846 8260B

T24558-1, T24558-2

CAS No.	Compound	T24527 ug/l	'-3 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	Т2	4527-3	Limits			
1868-53-7	Dibromofluoromethane	110%	• •	110%	10	2%	79-122	%		
17060-07-0	1,2-Dichloroethane-D4	104%		105%	86		75-121			
2037-26-5	Toluene-D8	110%		109%	11	1%	87-119			
460-00-4	4-Bromofluorobenzene	108%		108%		5%	80-133	%		



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