

3R – 449

Q2 2010 GWMR

08 / 09 / 2010

Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

RECEIVED OCD

2010 AUG 11 P 2: 22

August 9, 2010

Glen von Gonten
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

**RE: 2nd Quarter Groundwater Investigation Report for Williams Four Corners, LLC,
Sammons #2 Pipeline December 2009 Release, Flora Vista, San Juan County,
New Mexico**

Dear Mr. von Gonten:

Animas Environmental Services, LLC (AES), on behalf of Williams Four Corners, LLC, has prepared this *2nd Quarter Groundwater Investigation Report* for the Sammons #2 Pipeline December 2009 Release in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations. The subject site is located near Flora Vista, San Juan County, New Mexico.

A second quarterly groundwater monitoring and sampling event was completed July 20, 2010, in accordance with a workplan previously prepared by AES and dated January 25, 2010. The workplan was submitted to the NMOCD for review prior to implementing the proposed scope of work.

1.0 Site Information

1.1 Site Location

The general project area is located in a rural area approximately 0.1 mile east of County Road 3000 on private property owned by Ms. Helen Clark. The spill location is located approximately 140 feet southeast of a wetland area that is adjacent to the Animas River. The project area is described legally as within the SE¼ NE¼ Section 32, T30N, R12W, in Flora Vista, San Juan County, New Mexico. Longitude and latitude were recorded as being N36°46'18.240" and W108°06'54.540". A topographic site location map is included as Figure 1, and a Site Vicinity Map is presented as Figure 2.



1.2 Spill History

On December 3, 2009, trenching operations during routine pipeline replacement activities uncovered petroleum hydrocarbon contaminated soils. Williams was in the process of replacing an in-service 2-inch diameter natural gas pipeline with a new 4-inch diameter natural gas pipeline. The pipeline connects the Sammons 2 well locations, which are owned by Conoco Phillips. The volume of natural gas condensate released into the surrounding environment and the length of time that the 2-inch diameter pipeline was leaking are unknown.

Initial remedial activities were completed between December 7 and 17, 2009, and included excavation of approximately 1,884 cubic yards of petroleum contaminated soil (PCS) and removal of 1,122 barrels (bbls) of petroleum contaminated groundwater. Petroleum contaminated soil and groundwater were transported to Industrial Ecosystems, Inc. (IEI) on Crouch Mesa, San Juan County, for disposal. Soil excavation and removal activities were documented in the *Remedial Activities Report for Sammons #2 Pipeline 2009 Spill*, prepared by AES and dated January 11, 2010.

Six 1-inch diameter groundwater monitoring wells were installed and sampled at the site in April 2010. Analytical results from groundwater samples collected during the sampling event showed benzene concentrations exceeded the New Mexico Water Quality Control Commission (WQCC) standard of 10 µg/L in one well, MW-1 (11 µg/L). The remaining wells had benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations either below laboratory detection limits or well below applicable WQCC standards.

Diesel and motor oil range organics were below laboratory detection limits for all wells sampled. Low level gasoline range organics (GRO) were detected in MW-2, MW-4, MW-5, and MW-6. Based on the laboratory results, AES recommended continued quarterly groundwater monitoring at the site for at least a year.

Groundwater investigation details are included within the *Site Investigation Report* prepared by AES and dated May 5, 2010.

2.0 Groundwater Monitoring and Sampling July 2010

On July 20, 2010, groundwater monitoring and sampling activities were conducted by AES. Work was completed in accordance with the workplan prepared by AES and dated January 25, 2010, and also in accordance with U.S. Environmental Protection Agency (USEPA) Environmental Response Team's Standard Operating Procedures (SOPs), and applicable American Society of Testing and Materials (ASTM) standards.

2.1 Notification

AES notified Aaron Dailey of Williams and Nick Clark, land owner, via telephone before starting field activities.

2.2 Groundwater Monitor Well Monitoring and Sampling

AES personnel completed groundwater monitoring and sampling of the wells on July 20, 2010. Groundwater samples were collected from a total of six monitor wells with new disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms.

Prior to sample collection, water quality measurements were recorded and included depth to groundwater, pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP). Depth to groundwater was measured with a Keck Water Level Indicator, and water quality data was measured with a YSI Water Quality Meter. Samples were shipped in insulated coolers containing ice at less than 6°C via Greyhound bus to Hall Environmental Analytical Laboratory (Hall) in Albuquerque, New Mexico.

2.2.1 Laboratory Analyses - Groundwater

All groundwater analytical samples were analyzed for the following parameters:

- BTEX – EPA Method 8260
- TPH (C₆-C₃₆) GRO, DRO, and MRO – EPA Method 8015 Modified

2.2.2 Measurement Data

Depths to groundwater varied across the site and were observed to exist at about 0.86 feet below top of casing (TOC) in MW-5 to 2.05 feet below TOC in MW-1. The groundwater gradient was calculated to be approximately 0.01 ft/ft to the northwest, which is consistent with previous site data.

Following depth to water measurement, each well was purged with a disposable bailer until recorded temperature, pH, conductivity, and dissolved oxygen (DO) measurements were stabilized. All data was recorded onto Water Sample Collection Forms.

Groundwater temperature ranged from 14.75°C to 21.57°C, and conductivity ranged from 0.84 mS to 1.399 mS. Although DO was recorded during field activities, it should be noted that due to the use of bailers, the accuracy of dissolved oxygen measurements is unknown. Depth to groundwater measurements and water quality data are summarized in Table 1, and groundwater elevation contours are presented in Figure 3. Water Sample Collection forms are presented in Appendix A.

2.2.3 Groundwater Analytical Results

Analytical results from groundwater samples collected during the July 2010 sampling event showed that BTEX concentrations were below laboratory detection limits in all six monitoring wells.

Dissolved phase diesel and motor oil range organics concentrations were below laboratory detection limits for all wells sampled. Low level gasoline range organics were detected in MW-6 at 0.079 mg/L. WQCC standards have not been established for TPH. The laboratory analytical results for groundwater samples collected during the July 2010 sampling event have been tabulated and are presented in Table 2 and on Figure 4. Groundwater analytical laboratory reports are presented in Appendix A.

3.0 Conclusion and Recommendations

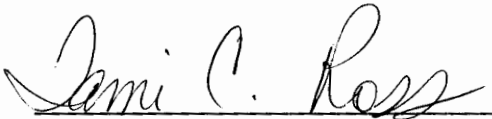
AES personnel conducted groundwater monitoring and sampling at the location of the Sammons #2 Pipeline December 2009 Release in July 2010. Depths to groundwater varied across the site and were observed to exist at about 0.86 to 2.05 feet bgs from the top of the well casing, and groundwater gradient was calculated to be approximately 0.01 ft/ft to the northwest.

Groundwater analytical results showed that contaminants of concern (i.e. BTEX) were below laboratory detection limits, and low level gasoline range organics were reported in MW-6 (0.079 mg/L). Natural attenuation of groundwater contaminants appears to be occurring at the site.

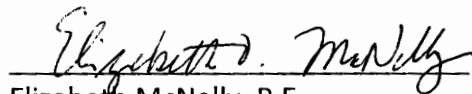
AES has tentatively scheduled the next quarterly sampling event for October 2010.

If you have any questions regarding site conditions or this report, please do not hesitate to contact Tami Ross or Elizabeth McNally at (505) 564-2281.

Sincerely,



Tami C. Ross, CHMM
Project Manager



Elizabeth McNally, P.E.
New Mexico Registration #15799

Attachments:

Tables

- Table 1. Groundwater Measurement and Water Quality Data
Table 2. Groundwater Analytical Results

Figures

- Figure 1. Topographic Site Location Map
Figure 2. Site Plan
Figure 3. Groundwater Elevations, July 2010
Figure 4. Groundwater Analytical Results, July 2010

Appendix A

- Water Sample Collection Forms
Groundwater Analytical Laboratory Reports

Cc: Mr. Brandon Powell
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Mr. Aaron Dailey
Williams Four Corners, LLC
188 CR 4900
Bloomfield, NM 87413

Mr. Nick Clark
719 Otten Street
Aztec, NM 87410

Files:2010/Williams/Sammons#2/Groundwater/Reports/2nd Qutr Investigation Report 080210
rev 080910

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
Williams Four Corners #2 Pipeline Spill Investigation
Flora Vista, San Juan County, New Mexico

Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	pH	ORP (mV)
MW-1	20-Apr-10	2.43	5427.26	5424.83	10.19	4.392	0.43	7.05	35.1
MW-1	20-Jul-10	2.05	5427.26	5425.21	14.75	1.108	1.76	7.14	-89.7
MW-2	20-Apr-10	1.11	5424.98	5423.87	10.37	1.670	0.20	7.39	-132.7
MW-2	20-Jul-10	0.91	5424.98	5424.07	19.09	0.930	1.84	7.26	-99.3
MW-3	20-Apr-10	1.77	5425.44	5423.67	9.73	2.005	0.24	7.21	-69.0
MW-3	20-Jul-10	1.56	5425.44	5423.88	17.89	0.842	1.52	7.22	-85.6
MW-4	20-Apr-10	1.59	5424.38	5422.79	9.60	2.174	0.22	7.29	-88.4
MW-4	20-Jul-10	1.44	5424.38	5422.94	16.39	1.061	1.29	7.17	-87.7
MW-5	20-Apr-10	1.00	5424.17	5423.17	9.88	3.140	0.21	7.37	-102.6
MW-5	20-Jul-10	0.86	5424.17	5423.31	20.50	1.440	1.03	6.98	-93.5
MW-6	20-Apr-10	1.04	5424.91	5423.87	11.09	2.277	0.22	7.28	-113.6
MW-6	20-Jul-10	0.89	5424.91	5424.02	21.57	1.399	1.06	6.93	-82.3

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Williams Four Corners #2 Pipeline Spill Investigation
Flora Vista, San Juan County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	GRO (C6-C10)	DRO (C10-C22)	MRO (C22-C32)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8260B	8260B	8260B	8260B	8015	8015	8015
WQCC Standard		10	10	10	10	NE	NE	NE
MW-1	20-Apr-10	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-1	20-Jul-10	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-2	20-Apr-10	11	<1.0	2.4	22	1.1	<1.0	<5.0
MW-2	20-Apr-10	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-3	20-Apr-10	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-3	20-Jul-10	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-4	20-Apr-10	9.9	<1.0	<1.0	<1.5	0.074	<1.0	<5.0
MW-4	20-Jul-10	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-5	20-Apr-10	9.7	<1.0	<1.0	<1.5	0.055	<1.0	<5.0
MW-5	20-Jul-10	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-6	20-Apr-10	4.6	<1.0	11	47	3.2	<1.0	<5.0
MW-6	20-Jul-10	<1.0	<1.0	<1.0	<1.5	0.079	<1.0	<5.0
Field Blank	22-Apr-10	<1.0	<1.0	<1.0	<1.5	NA	NA	NA

Notes: < - Analyte below laboratory detection limit
 NA - Not Analyzed
 NE - Not Established

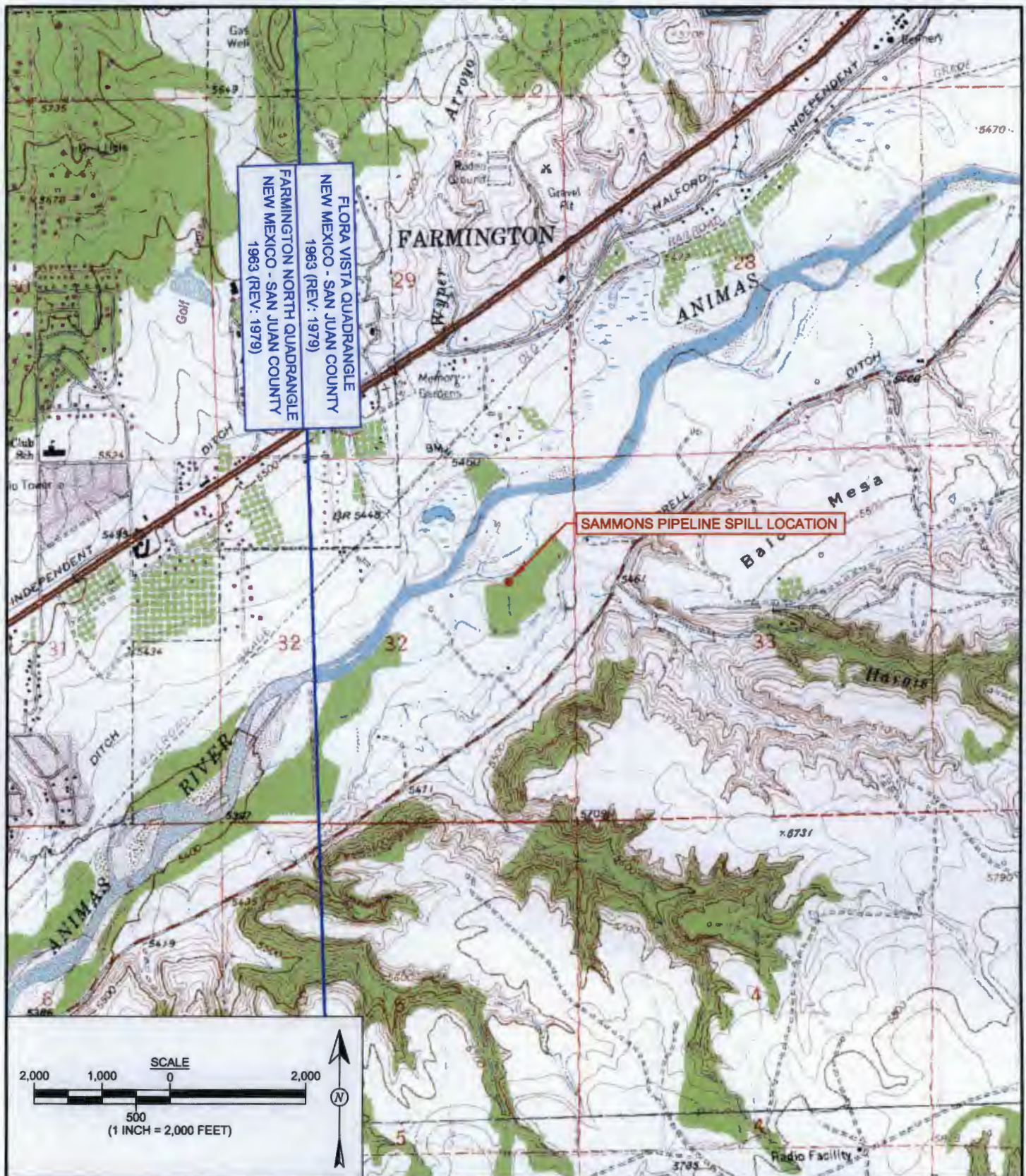


FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

WILLIAMS FOUR CORNERS, LLC
SAMMONS #2 PIPELINE DECEMBER 2009 RELEASE
FARMINGTON, SAN JUAN COUNTY, NEW MEXICO
N36°45'18.240" , W108°06'54.540"



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: December 29, 2009
REVISIONS BY: C. Lameman	DATE REVISED: August 2, 2010
CHECKED BY: E. McNally	DATE CHECKED: August 2, 2010
APPROVED BY: E. McNally	DATE APPROVED: August 2, 2010

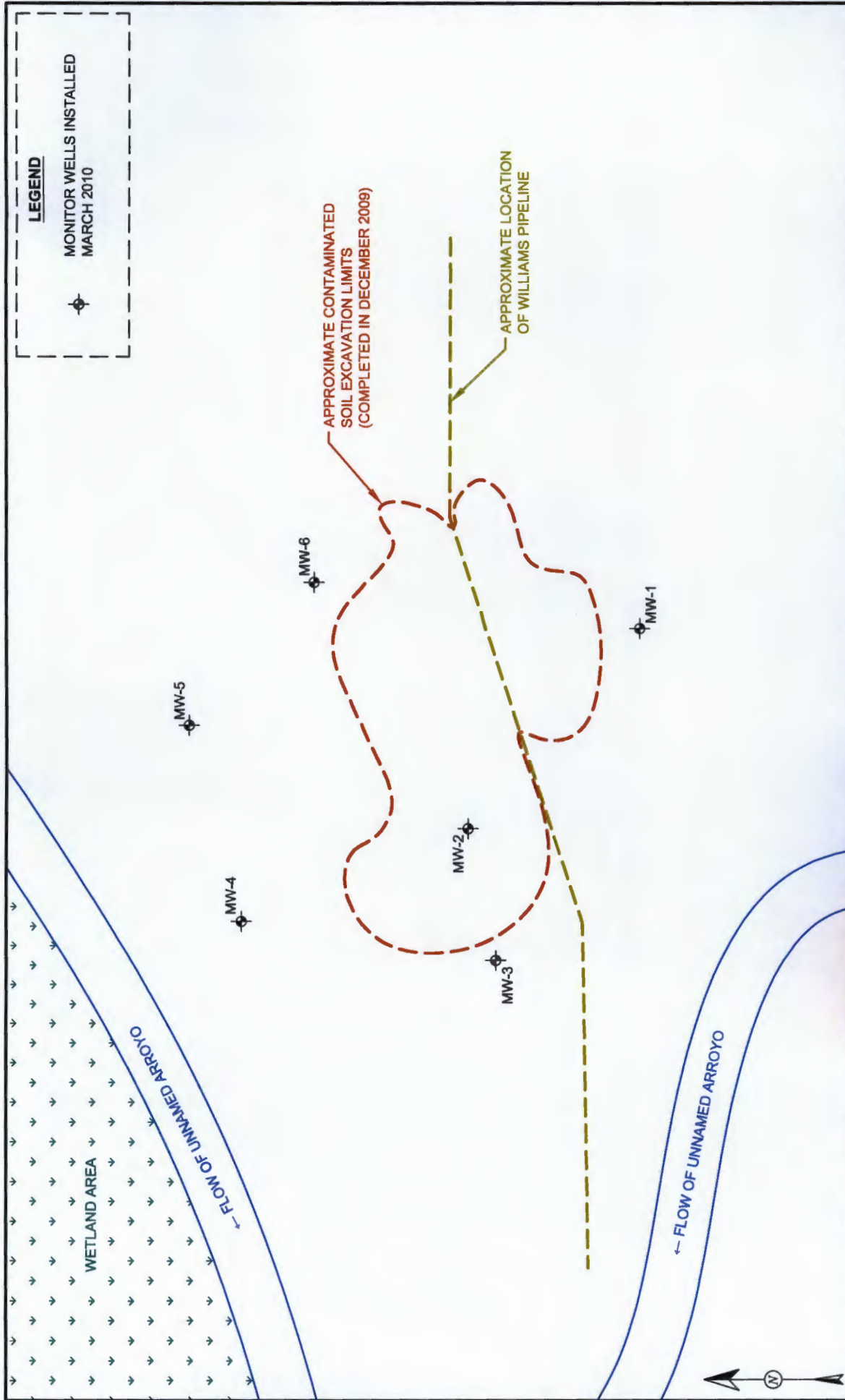


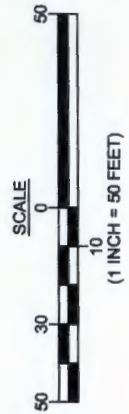
FIGURE 2

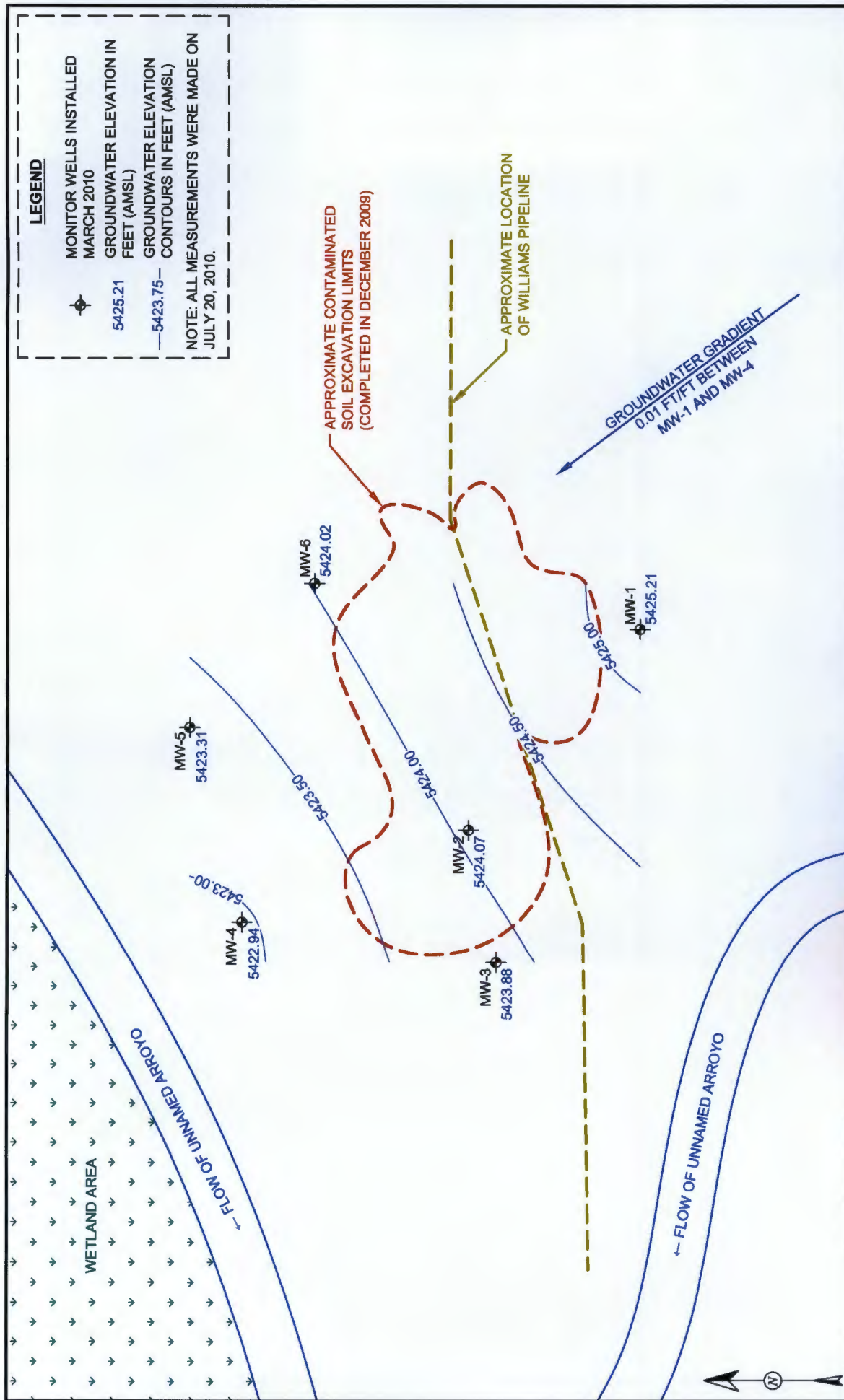
GENERAL SITE PLAN

WILLIAMS FOUR CORNERS, LLC
SAMMONS #2 PIPELINE DECEMBER 2009 RELEASE
FARMINGTON, SAN JUAN COUNTY, NEW MEXICO
N36°46'18.240" , W108°06'54.540"



Animas Environmental Services, LLC





Animas Environmental Services, LLC

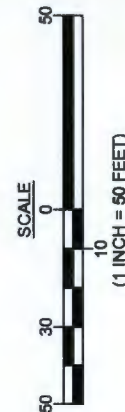


FIGURE 3

GROUNDWATER ELEVATION CONTOURS JULY 2010

WILLIAMS FOUR CORNERS, LLC
SAMMONS #2 PIPELINE DECEMBER 2009 RELEASE
FARMINGTON, SAN JUAN COUNTY, NEW MEXICO
N36°46'18.240" , W108°06'54.540"

DRAWN BY: C. Laraman	DATE DRAWN: April 13, 2010
REVISIONS BY: C. Laraman	DATE REVISED: August 2, 2010
CHECKED BY: E. McNally	DATE CHECKED: August 2, 2010
APPROVED BY: E. McNally	DATE APPROVED: August 2, 2010

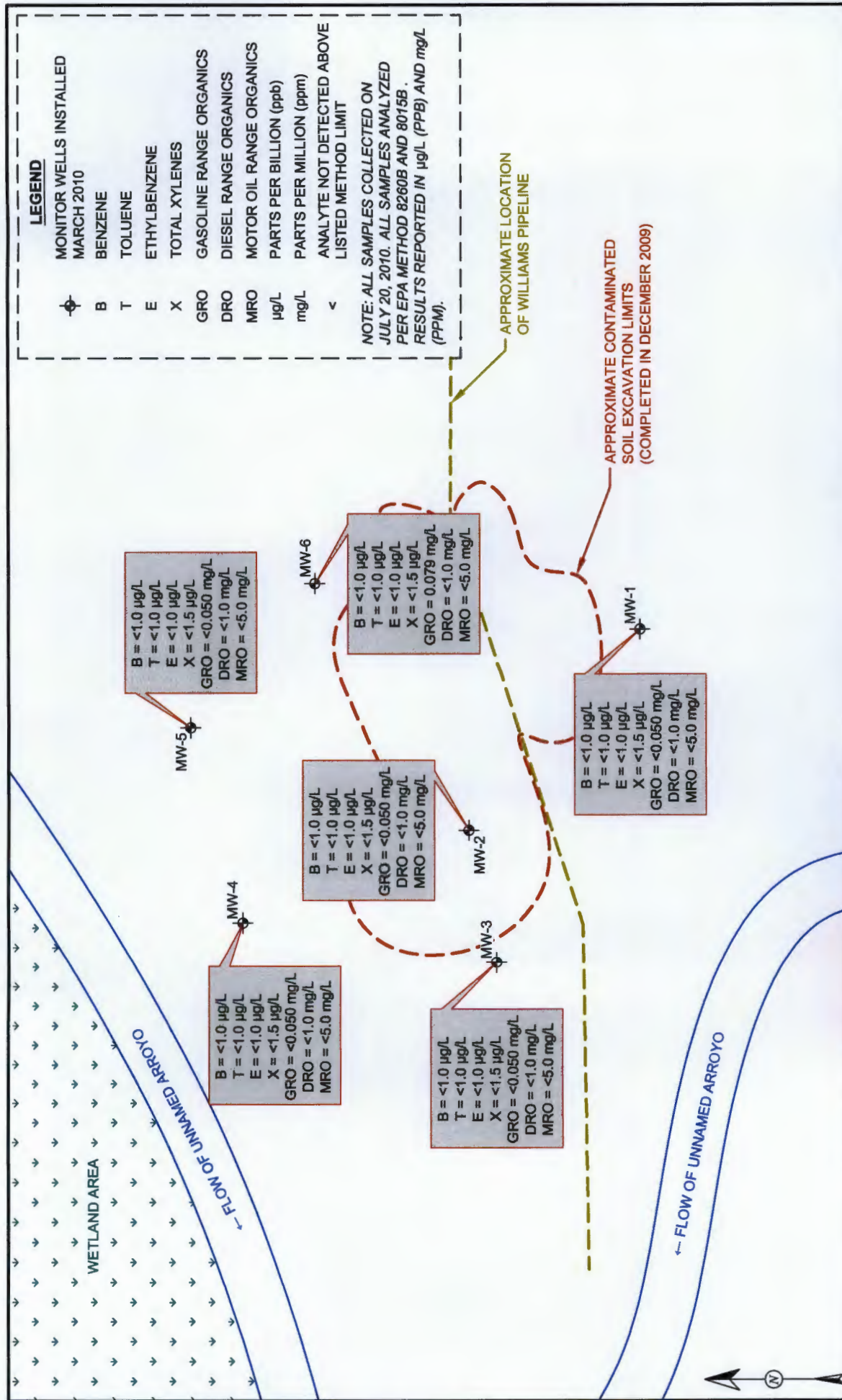
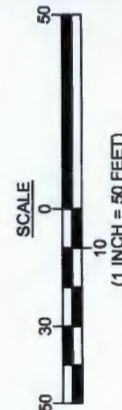


 		FIGURE 4		GROUNDWATER ANALYTICAL RESULTS JULY 2010 WILLIAMS FOUR CORNERS, LLC SAMMONS #2 PIPELINE DECEMBER 2009 RELEASE FARMINGTON, SAN JUAN COUNTY, NEW MEXICO N36°46'18.240" , W108°06'54.540"
DRAWN BY: C. Lameman		DATE DRAWN: April 13, 2010		
REVISIONS BY: C. Lameman		DATE REVISED: August 2, 2010		
CHECKED BY: E. McNally		DATE CHECKED: August 2, 2010		
APPROVED BY: E. McNally		DATE APPROVED: August 2, 2010		



Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring

Site: Williams Sammons #2 Pipeline Spill

Location: Flora Vista, San Juan County, New Mexico

Tech: N. Willis

Project No.: AES 091204

Date: 7-20-10

Time: 0955

Form: 1 of 1

[illegible]

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MONITORING WELL SAMPLING RECORD				Animas Environmental Services			
Monitor Well No: <u>MW-1</u>				624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022			
Site: <u>Williams Sammons #2 Pipeline Spill</u>				Project No.: <u>AES 091204</u>			
Location: <u>Flora Vista, San Juan County, New Mexico</u>				Date: <u>7-20-10</u>			
Project: <u>Groundwater Monitoring and Sampling</u>				Arrival Time: <u>0955</u>			
Sampling Technician: <u>N. Willis</u>				Air Temp: <u>78° F</u>			
Purge / No Purge: <u>Purge</u>				T.O.C. Elev. (ft): <u>5427.26</u>			
Well Diameter (in): <u>1</u>				Total Well Depth (ft): <u>5.9</u>			
Initial D.T.W. (ft): <u>2.05</u>		Time: <u>1002</u>		(taken at initial gauging of all wells)			
Confirm D.T.W. (ft): _____		Time: _____		(taken prior to purging well)			
Final D.T.W. (ft): _____		Time: _____		(taken after sample collection)			
If NAPL Present: D.T.P.: _____ D.T.W.: _____				Thickness: _____ Time: _____			

Water Quality Parameters - Recorded During Well Purging							
Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME <i>gallons</i> (see reverse for calc.)	Notes/Observations
1006	18.69	1.227	3.13	7.26	-96.2	0.03 gal	
1018	16.64	1.006	2.10	7.18	-95.6	0.20 gal	
1027	16.51	0.999	1.72	7.19	-100.0	0.20 gal	
1031	15.61	1.046	2.20	7.16	-93.7	0.20 gal	
1035	14.97	1.048	1.44	7.14	-94.2	0.20 gal	
1038	14.75	1.108	1.76	7.14	-89.7	0.20 gal	
1042							Samples collected

Analytical Parameters (include analysis method and number and type of sample containers)	
Full VOCs per EPA Method 8260B (3 - 40 mL Vials w/ HCl preserve)	
MRO, DRO, GRO per EPA Method 8015 (2 - 40 mL Vials w/ HCL perserve, 1 - 40 mL unpreserved)	
Disposal of Purged Water: <u>Asphalt</u>	
Collected Samples Stored on Ice in Cooler: <u>Yes</u>	
Chain of Custody Record Complete: <u>Yes</u>	
Analytical Laboratory: <u>Hall Environmental Analysis Laboratory, Albuquerque, NM</u>	
Equipment Used During Sampling: <u>Keck Water Level or Keck Interface Level, YSI Water Quality Meter</u> <u>and New Disposable Bailer</u>	
Notes/Comments:	

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: MW-2

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Williams Sammons #2 Pipeline Spill
Location: Flora Vista, San Juan County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: No Purge
Well Diameter (in): 1
Initial D.T.W. (ft): _____ Time: _____
Confirm D.T.W. (ft): 0.91 Time: 1103
Final D.T.W. (ft): _____ Time: _____
If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

Project No.: AES 091204
Date: 7-20-10
Arrival Time: 1101
Air Temp: 78°F
T.O.C. Elev. (ft): 5424.98
Total Well Depth (ft): 5.96
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME Gallons (see reverse for calc.)	Notes/Observations
1111	21.64	0.931	1.25	7.29	-110.3	0.03	
1117	19.35	0.911	1.37	7.25	-106.4	0.25	
1122	19.04	0.922	1.13	7.23	-103.0	0.25	
1127	18.88	0.908	1.09	7.24	-97.8	0.25	
1133	19.33	0.948	2.06	7.27	-100.3	0.25	
1138	19.09	0.930	1.84	7.26	-99.3	0.25	
1143							Samples Collected

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8260B (3 - 40 mL Vials w/ HCl preserve)

MRO, DRO, GRO per EPA Method 8015 (2 - 40 mL Vials w/ HCL perserve, 1 - 40 mL unpreserved)

Disposal of Purged Water: Asphalt

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:

Animas Environmental Services

Monitor Well No: **MW-3**

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Williams Sammons #2 Pipeline Spill

Location: Flora Vista, San Juan County, New Mexico

Project: Groundwater Monitoring and Sampling

Sampling Technician: D. Willis

Purge / No Purge: No Purge

Well Diameter (in): 1

Initial D.T.W. (ft): _____ Time: _____

Confirm D.T.W. (ft): 1.56 Time: 11:30

Final D.T.W. (ft): _____ Time: _____

If NAPL Present: D.T.P.: _____ D.T.W.: _____

Project No.: AES 091204

Date: 7-20-10

Arrival Time: 1156

Air Temp: 78°F

T.O.C. Elev. (ft): 5425.44

Total Well Depth (ft): 5.9

(taken at initial gauging of all wells)

(taken prior to purging well)

(taken after sample collection)

Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

[illegible]

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8260B (3 - 40 mL Vials w/ HCl preserve)

MRO, DRO, GRO per EPA Method 8015 (2 - 40 mL Vials w/ HCL preserve, 1 - 40 mL unpreserved)

Disposal of Purged Water: Asphalt

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project No.: AES 091204

Date: 7-20-10

Arrival Time: 1241

Air Temp: 88°F

T.O.C. Elev. (ft): 5424.38

Total Well Depth (ft): 5.84

(taken at initial gauging of all wells)

(taken prior to purging well)

(taken after sample collection)

If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

[illegible]

Full VOCs per EPA Method 8260B (3 - 40 mL Vials w/ HCl preserve)
MRO, DRO, GRO per EPA Method 8015 (2 - 40 mL Vials w/ HCL perserve, 1 - 40 mL unpreserved)

Disposal of Purged Water: Asphalt

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD				Animas Environmental Services			
Monitor Well No: <u> MW-5 </u>				624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022			
Site: <u>Williams Sammons #2 Pipeline Spill</u>				Project No.: <u>AES 091204</u>			
Location: <u>Flora Vista, San Juan County, New Mexico</u>				Date: <u>7-20-10</u>			
Project: <u>Groundwater Monitoring and Sampling</u>				Arrival Time: <u>1341</u>			
Sampling Technician: <u>N. Willis</u>				Air Temp: <u>90°F</u>			
Purge / No Purge: <u>No Purge</u>				T.O.C. Elev. (ft): <u>5424.17</u>			
Well Diameter (in): <u>1</u>				Total Well Depth (ft): <u>5.91</u>			
Initial D.T.W. (ft): <u> </u>		Time: <u> </u>		(taken at initial gauging of all wells)			
Confirm D.T.W. (ft): <u>0.86</u>		Time: <u>1348</u>		(taken prior to purging well)			
Final D.T.W. (ft): <u> </u>		Time: <u> </u>		(taken after sample collection)			
If NAPL Present: D.T.P.: <u> </u>				D.T.W.: <u> </u>		Thickness: <u> </u> Time: <u> </u>	

Water Quality Parameters - Recorded During Well Purging							
Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME <i>Gal.</i> (see reverse for calc.)	Notes/Observations
1353	24.73	1.431	0.99	7.05	-106.8	0.03	
1358	21.66	1.456	0.74	6.99	-100.3	0.25	
1359 1403	20.35	1.434	1.48	6.96	-92.1	0.25	
1408	20.49	1.434	0.52	6.96	-96.1	0.25	
1413	20.19	1.433	1.46	6.96	-91.4	0.25	
1418	20.50	1.440	1.03	6.98	-93.5	0.25	
1423							Samples Collected

Analytical Parameters (include analysis method and number and type of sample containers)	
Full VOCs per EPA Method 8260B (3 - 40 mL Vials w/ HCl preserve)	
MRO, DRO, GRO per EPA Method 8015 (2 - 40 mL Vials w/ HCL perserve, 1 - 40 mL unpreserved)	
Disposal of Purged Water: <u>Asphalt</u>	
Collected Samples Stored on Ice in Cooler: <u>Yes</u>	
Chain of Custody Record Complete: <u>Yes</u>	
Analytical Laboratory: <u>Hall Environmental Analysis Laboratory, Albuquerque, NM</u>	
Equipment Used During Sampling: <u>Keck Water Level or Keck Interface Level, YSI Water Quality Meter</u> <u>and New Disposable Bailer</u>	

Notes/Comments:

Revised: 00/10/09

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: MW-6

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Williams Sammons #2 Pipeline Spill
Location: Flora Vista, San Juan County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: No Purge
Well Diameter (in): 1
Initial D.T.W. (ft): _____ Time: _____
Confirm D.T.W. (ft): 0.89 Time: 1457
Final D.T.W. (ft): _____ Time: _____
If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

Project No.: AES 091204
Date: 7-20-10
Arrival Time: 1450
Air Temp: 90°F
T.O.C. Elev. (ft): 5424.91
Total Well Depth (ft): 6.30
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME Gal. (see reverse for calc.)	Notes/Observations
1459	26.44	1.392	0.78	7.00	-97.4	0.03	
1504	22.74	1.388	0.64	6.94	-92.0	0.25	
1509	21.62	1.382	0.90	6.92	-85.6	0.25	
1514	21.52	1.400	0.65	6.91	-83.2	0.25	
1519	21.40	1.389	0.90	6.92	-83.2	0.25	
1524	21.57	1.399	1.06	6.93	-82.3	0.25	
1529							Samples Collected

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8260B (3 - 40 mL Vials w/ HCl preserve)

MRO, DRO, GRO per EPA Method 8015 (2 - 40 mL Vials w/ HCL perserve, 1 - 40 mL unpreserved)

Disposal of Purged Water: Asphalt

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:



COVER LETTER

Friday, July 30, 2010

Tami Ross
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: Williams Sammons #2 Pipeline Spill

Order No.: 1007853

Dear Tami Ross:

Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 7/23/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Lab Order: 1007853

Collection Date: 7/20/2010 10:42:00 AM

Project: Williams Sammons #2 Pipeline Spill

Date Received: 7/23/2010

Lab ID: 1007853-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/26/2010 8:09:59 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/26/2010 8:09:59 PM
Surr: DNOP	134	86.9-151		%REC	1	7/26/2010 8:09:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/27/2010 4:41:22 PM
Surr: BFB	93.9	65.7-118		%REC	1	7/27/2010 4:41:22 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Toluene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Ethylbenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Naphthalene	ND	2.0		µg/L	1	7/29/2010 5:46:42 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 5:46:42 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 5:46:42 PM
Acetone	ND	10		µg/L	1	7/29/2010 5:46:42 PM
Bromobenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Bromoform	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Bromomethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
2-Butanone	ND	10		µg/L	1	7/29/2010 5:46:42 PM
Carbon disulfide	ND	10		µg/L	1	7/29/2010 5:46:42 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Chlorobenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Chloroethane	ND	2.0		µg/L	1	7/29/2010 5:46:42 PM
Chloroform	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Chloromethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/29/2010 5:46:42 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Dibromomethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-01

Client Sample ID: MW-1
Collection Date: 7/20/2010 10:42:00 AM
Date Received: 7/23/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/29/2010 5:46:42 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
2-Hexanone	ND	10		µg/L	1	7/29/2010 5:46:42 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/29/2010 5:46:42 PM
Methylene Chloride	ND	3.0		µg/L	1	7/29/2010 5:46:42 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Styrene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/29/2010 5:46:42 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/29/2010 5:46:42 PM
Vinyl chloride	ND	1.0		µg/L	1	7/29/2010 5:46:42 PM
Xylenes, Total	ND	1.5		µg/L	1	7/29/2010 5:46:42 PM
Surr: 1,2-Dichloroethane-d4	102	54.6-141		%REC	1	7/29/2010 5:46:42 PM
Surr: 4-Bromofluorobenzene	122	60.1-133		%REC	1	7/29/2010 5:46:42 PM
Surr: Dibromofluoromethane	104	78.5-130		%REC	1	7/29/2010 5:46:42 PM
Surr: Toluene-d8	104	79.5-126		%REC	1	7/29/2010 5:46:42 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-02

Client Sample ID: MW-2
Collection Date: 7/20/2010 11:43:00 AM
Date Received: 7/23/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/26/2010 8:43:51 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/26/2010 8:43:51 PM
Surr: DNOP	135	86.9-151		%REC	1	7/26/2010 8:43:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/27/2010 5:10:16 PM
Surr: BFB	95.8	65.7-118		%REC	1	7/27/2010 5:10:16 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Toluene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Ethylbenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Naphthalene	ND	2.0		µg/L	1	7/29/2010 6:14:26 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 6:14:26 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 6:14:26 PM
Acetone	ND	10		µg/L	1	7/29/2010 6:14:26 PM
Bromobenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Bromoform	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Bromomethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
2-Butanone	ND	10		µg/L	1	7/29/2010 6:14:26 PM
Carbon disulfide	ND	10		µg/L	1	7/29/2010 6:14:26 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Chlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Chloroethane	ND	2.0		µg/L	1	7/29/2010 6:14:26 PM
Chloroform	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Chloromethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/29/2010 6:14:26 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Dibromomethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-02

Client Sample ID: MW-2
Collection Date: 7/20/2010 11:43:00 AM
Date Received: 7/23/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/29/2010 6:14:26 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
2-Hexanone	ND	10		µg/L	1	7/29/2010 6:14:26 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/29/2010 6:14:26 PM
Methylene Chloride	ND	3.0		µg/L	1	7/29/2010 6:14:26 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Styrene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/29/2010 6:14:26 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/29/2010 6:14:26 PM
Vinyl chloride	ND	1.0		µg/L	1	7/29/2010 6:14:26 PM
Xylenes, Total	ND	1.5		µg/L	1	7/29/2010 6:14:26 PM
Surr: 1,2-Dichloroethane-d4	102	54.6-141		%REC	1	7/29/2010 6:14:26 PM
Surr: 4-Bromofluorobenzene	121	60.1-133		%REC	1	7/29/2010 6:14:26 PM
Surr: Dibromofluoromethane	106	78.5-130		%REC	1	7/29/2010 6:14:26 PM
Surr: Toluene-d8	109	79.5-126		%REC	1	7/29/2010 6:14:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Page 4 of 14

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services

Client Sample ID: MW-3

Lab Order: 1007853

Collection Date: 7/20/2010 12:29:00 PM

Project: Williams Sammons #2 Pipeline Spill

Date Received: 7/23/2010

Lab ID: 1007853-03

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/26/2010 9:17:42 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/26/2010 9:17:42 PM
Surr: DNOP	142	86.9-151		%REC	1	7/26/2010 9:17:42 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/27/2010 5:39:08 PM
Surr: BFB	93.7	65.7-118		%REC	1	7/27/2010 5:39:08 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Toluene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Ethylbenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Naphthalene	ND	2.0		µg/L	1	7/29/2010 6:42:08 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 6:42:08 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 6:42:08 PM
Acetone	ND	10		µg/L	1	7/29/2010 6:42:08 PM
Bromobenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Bromoform	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Bromomethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
2-Butanone	ND	10		µg/L	1	7/29/2010 6:42:08 PM
Carbon disulfide	ND	10		µg/L	1	7/29/2010 6:42:08 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Chlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Chloroethane	ND	2.0		µg/L	1	7/29/2010 6:42:08 PM
Chloroform	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Chloromethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/29/2010 6:42:08 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Dibromomethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-03

Client Sample ID: MW-3
Collection Date: 7/20/2010 12:29:00 PM
Date Received: 7/23/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/29/2010 6:42:08 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
2-Hexanone	ND	10		µg/L	1	7/29/2010 6:42:08 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/29/2010 6:42:08 PM
Methylene Chloride	ND	3.0		µg/L	1	7/29/2010 6:42:08 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Styrene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/29/2010 6:42:08 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/29/2010 6:42:08 PM
Vinyl chloride	ND	1.0		µg/L	1	7/29/2010 6:42:08 PM
Xylenes, Total	ND	1.5		µg/L	1	7/29/2010 6:42:08 PM
Surr: 1,2-Dichloroethane-d4	105	54.6-141		%REC	1	7/29/2010 6:42:08 PM
Surr: 4-Bromofluorobenzene	114	60.1-133		%REC	1	7/29/2010 6:42:08 PM
Surr: Dibromofluoromethane	103	78.5-130		%REC	1	7/29/2010 6:42:08 PM
Surr: Toluene-d8	107	79.5-126		%REC	1	7/29/2010 6:42:08 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-04

Client Sample ID: MW-4
Collection Date: 7/20/2010 1:20:00 PM
Date Received: 7/23/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/26/2010 9:51:34 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/26/2010 9:51:34 PM
Surr: DNOP	133	86.9-151		%REC	1	7/26/2010 9:51:34 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/27/2010 6:07:58 PM
Surr: BFB	101	65.7-118		%REC	1	7/27/2010 6:07:58 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Toluene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Ethylbenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Naphthalene	ND	2.0		µg/L	1	7/29/2010 7:09:47 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 7:09:47 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 7:09:47 PM
Acetone	ND	10		µg/L	1	7/29/2010 7:09:47 PM
Bromobenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Bromoform	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Bromomethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
2-Butanone	ND	10		µg/L	1	7/29/2010 7:09:47 PM
Carbon disulfide	ND	10		µg/L	1	7/29/2010 7:09:47 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Chlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Chloroethane	ND	2.0		µg/L	1	7/29/2010 7:09:47 PM
Chloroform	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Chloromethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/29/2010 7:09:47 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Dibromomethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-04

Client Sample ID: MW-4
Collection Date: 7/20/2010 1:20:00 PM
Date Received: 7/23/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/29/2010 7:09:47 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
2-Hexanone	ND	10		µg/L	1	7/29/2010 7:09:47 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/29/2010 7:09:47 PM
Methylene Chloride	ND	3.0		µg/L	1	7/29/2010 7:09:47 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Styrene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/29/2010 7:09:47 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/29/2010 7:09:47 PM
Vinyl chloride	ND	1.0		µg/L	1	7/29/2010 7:09:47 PM
Xylenes, Total	ND	1.5		µg/L	1	7/29/2010 7:09:47 PM
Surr: 1,2-Dichloroethane-d4	109	54.6-141		%REC	1	7/29/2010 7:09:47 PM
Surr: 4-Bromofluorobenzene	110	60.1-133		%REC	1	7/29/2010 7:09:47 PM
Surr: Dibromofluoromethane	102	78.5-130		%REC	1	7/29/2010 7:09:47 PM
Surr: Toluene-d8	108	79.5-126		%REC	1	7/29/2010 7:09:47 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Estimated value	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
NC Non-Chlorinated	ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit	S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services

Client Sample ID: MW-5

Lab Order: 1007853

Collection Date: 7/20/2010 2:23:00 PM

Project: Williams Sammons #2 Pipeline Spill

Date Received: 7/23/2010

Lab ID: 1007853-05

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/26/2010 10:25:25 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/26/2010 10:25:25 PM
Surr: DNOP	135	86.9-151		%REC	1	7/26/2010 10:25:25 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/27/2010 6:36:50 PM
Surr: BFB	96.6	65.7-118		%REC	1	7/27/2010 6:36:50 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Toluene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Ethylbenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Naphthalene	ND	2.0		µg/L	1	7/29/2010 7:37:21 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 7:37:21 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 7:37:21 PM
Acetone	ND	10		µg/L	1	7/29/2010 7:37:21 PM
Bromobenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Bromoform	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Bromomethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
2-Butanone	ND	10		µg/L	1	7/29/2010 7:37:21 PM
Carbon disulfide	ND	10		µg/L	1	7/29/2010 7:37:21 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Chlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Chloroethane	ND	2.0		µg/L	1	7/29/2010 7:37:21 PM
Chloroform	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Chloromethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/29/2010 7:37:21 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Dibromomethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-05

Client Sample ID: MW-5
Collection Date: 7/20/2010 2:23:00 PM
Date Received: 7/23/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/29/2010 7:37:21 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
2-Hexanone	ND	10		µg/L	1	7/29/2010 7:37:21 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/29/2010 7:37:21 PM
Methylene Chloride	ND	3.0		µg/L	1	7/29/2010 7:37:21 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Styrene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/29/2010 7:37:21 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/29/2010 7:37:21 PM
Vinyl chloride	ND	1.0		µg/L	1	7/29/2010 7:37:21 PM
Xylenes, Total	ND	1.5		µg/L	1	7/29/2010 7:37:21 PM
Surr: 1,2-Dichloroethane-d4	108	54.6-141		%REC	1	7/29/2010 7:37:21 PM
Surr: 4-Bromofluorobenzene	113	60.1-133		%REC	1	7/29/2010 7:37:21 PM
Surr: Dibromofluoromethane	103	78.5-130		%REC	1	7/29/2010 7:37:21 PM
Surr: Toluene-d8	104	79.5-126		%REC	1	7/29/2010 7:37:21 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-06

Client Sample ID: MW-6
Collection Date: 7/20/2010 3:29:00 PM
Date Received: 7/23/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/26/2010 10:59:18 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/26/2010 10:59:18 PM
Surr: DNOP	131	86.9-151		%REC	1	7/26/2010 10:59:18 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.079	0.050		mg/L	1	7/28/2010 2:41:38 PM
Surr: BFB	103	65.7-118		%REC	1	7/28/2010 2:41:38 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Toluene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Ethylbenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Naphthalene	ND	2.0		µg/L	1	7/29/2010 8:04:57 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 8:04:57 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 8:04:57 PM
Acetone	ND	10		µg/L	1	7/29/2010 8:04:57 PM
Bromobenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Bromoform	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Bromomethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
2-Butanone	ND	10		µg/L	1	7/29/2010 8:04:57 PM
Carbon disulfide	ND	10		µg/L	1	7/29/2010 8:04:57 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Chlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Chloroethane	ND	2.0		µg/L	1	7/29/2010 8:04:57 PM
Chloroform	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Chloromethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/29/2010 8:04:57 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Dibromomethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-06

Client Sample ID: MW-6
Collection Date: 7/20/2010 3:29:00 PM
Date Received: 7/23/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/29/2010 8:04:57 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
2-Hexanone	ND	10		µg/L	1	7/29/2010 8:04:57 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/29/2010 8:04:57 PM
Methylene Chloride	ND	3.0		µg/L	1	7/29/2010 8:04:57 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Styrene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/29/2010 8:04:57 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/29/2010 8:04:57 PM
Vinyl chloride	ND	1.0		µg/L	1	7/29/2010 8:04:57 PM
Xylenes, Total	ND	1.5		µg/L	1	7/29/2010 8:04:57 PM
Surr: 1,2-Dichloroethane-d4	102	54.6-141		%REC	1	7/29/2010 8:04:57 PM
Surr: 4-Bromofluorobenzene	107	60.1-133		%REC	1	7/29/2010 8:04:57 PM
Surr: Dibromofluoromethane	99.2	78.5-130		%REC	1	7/29/2010 8:04:57 PM
Surr: Toluene-d8	108	79.5-126		%REC	1	7/29/2010 8:04:57 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-07

Client Sample ID: Trip Blank
Collection Date:
Date Received: 7/23/2010
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Toluene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Ethylbenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Naphthalene	ND	2.0		µg/L	1	7/29/2010 8:32:31 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 8:32:31 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/29/2010 8:32:31 PM
Acetone	ND	10		µg/L	1	7/29/2010 8:32:31 PM
Bromobenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Bromoform	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Bromomethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
2-Butanone	ND	10		µg/L	1	7/29/2010 8:32:31 PM
Carbon disulfide	ND	10		µg/L	1	7/29/2010 8:32:31 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Chlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Chloroethane	ND	2.0		µg/L	1	7/29/2010 8:32:31 PM
Chloroform	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Chloromethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/29/2010 8:32:31 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Dibromomethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/29/2010 8:32:31 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jul-10

CLIENT: Animas Environmental Services
Lab Order: 1007853
Project: Williams Sammons #2 Pipeline Spill
Lab ID: 1007853-07

Client Sample ID: Trip Blank
Collection Date:
Date Received: 7/23/2010
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	7/29/2010 8:32:31 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/29/2010 8:32:31 PM
Methylene Chloride	ND	3.0		µg/L	1	7/29/2010 8:32:31 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Styrene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/29/2010 8:32:31 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/29/2010 8:32:31 PM
Vinyl chloride	ND	1.0		µg/L	1	7/29/2010 8:32:31 PM
Xylenes, Total	ND	1.5		µg/L	1	7/29/2010 8:32:31 PM
Surr: 1,2-Dichloroethane-d4	102	54.6-141		%REC	1	7/29/2010 8:32:31 PM
Surr: 4-Bromofluorobenzene	116	60.1-133		%REC	1	7/29/2010 8:32:31 PM
Surr: Dibromofluoromethane	102	78.5-130		%REC	1	7/29/2010 8:32:31 PM
Surr: Toluene-d8	104	79.5-126		%REC	1	7/29/2010 8:32:31 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Estimated value	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
NC Non-Chlorinated	ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit	S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: Williams Sammons #2 Pipeline Spill

Work Order: 1007853

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-23153		MBLK									
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-23153		LCS									
Diesel Range Organics (DRO)	5.828	mg/L	1.0	5	0	117	74	157			
Sample ID: LCSD-23153		LCSD									
Diesel Range Organics (DRO)	6.010	mg/L	1.0	5	0	120	74	157	3.08	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		MBLK									
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		LCS									
Gasoline Range Organics (GRO)	0.5164	mg/L	0.050	0.5	0	103	82.3	122			
Sample ID: 2.5UG GRO LCSD		LCSD									
Gasoline Range Organics (GRO)	0.4954	mg/L	0.050	0.5	0	99.1	82.3	122	4.15	10.3	

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: Williams Sammons #2 Pipeline Spill

Work Order: 1007853

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb

MBLK

Batch ID: R40099 Analysis Date: 7/29/2010 1:17:53 PM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	1.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	1.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: Williams Sammons #2 Pipeline Spill

Work Order: 1007853

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb

MBLK

Batch ID: R40099 Analysis Date: 7/29/2010 1:17:53 PM

4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: b6

MBLK

Batch ID: R40099 Analysis Date: 7/30/2010 1:07:59 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	1.0
n-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: Williams Sammons #2 Pipeline Spill

Work Order: 1007853

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b6

MBLK

Batch ID: R40099 Analysis Date: 7/30/2010 1:07:59 AM

Chloromethane	ND	µg/L	1.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: 100ng lcs

LCS

Batch ID: R40099 Analysis Date: 7/29/2010 2:32:31 PM

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: Williams Sammons #2 Pipeline Spill

Work Order: 1007853

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 100ng lcs

LCS

Batch ID: R40099 Analysis Date: 7/29/2010 2:32:31 PM

Benzene	20.76	µg/L	1.0	20	0	104	82.4	116			
Toluene	22.77	µg/L	1.0	20	0	114	89.5	123			
Chlorobenzene	21.67	µg/L	1.0	20	0	108	87.8	120			
1,1-Dichloroethene	26.36	µg/L	1.0	20	0	132	90.3	138			
Trichloroethene (TCE)	18.15	µg/L	1.0	20	0	90.8	64	129			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL

Date Received:

7/23/2010

Work Order Number 1007853

Received by: TLS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

2.1°

<6° C Acceptable

If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

