Souder, Miller & Associates ♦ 612 East Murray Drive ♦ Farmington, NM 87401
(505) 325-5667 ♦ fax (505) 327-1496

November 17, 2008 #3116075

Ms. Lorena Goerger, Project Manager
New Mexico Environment Department
Petroleum Storage Tank Bureau
1301 Siler Road
Building B
Santa Fe, NM 87507

RE: FIFTH QUARTERLY GROUND WATER MONITORING REPORT FOR CONOCO MINI MART, 3837 HIGHWAY 64, CHAMA, NEW MEXICO
FACILITY #27498 RID #2316 WPID #3264-4

Dear Ms. Goerger:

The following is the fifth quarterly ground water monitoring report since the UST removal and excavation at the above referenced site. The sampling event was completed on October 1, 2008.

Included with the report are the laboratory analyses for the water samples collected from the monitoring wells associated with the release site.

If you have any additional questions, please do not hesitate to call.

Sincerely,

SOUDER, MILLER & ASSOCIATES

Tami Ross
Staff Scientist

Reid S. Allan, P.G.
Vice President/Principal Scientist

FIFTH QUARTER
GROUND WATER MONITORING REPORT

For

Conoco Mini-Mart
3837 Highway 64
Chama, New Mexico
Facility #27498 RID #2316 WPID #3264-4

November 17, 2008

Prepared For:
New Mexico Environment Department
Petroleum Storage Tank Bureau

SMA
Civil/Environmental
Scientists & Engineers

612 East Murray Drive ▪ Farmington, NM ▪ 87401 ▪ (505) 325-5667

COVER PAGE
FORM 1216
QUARTERLY MONITORING REPORT

1. **Site Name:**

   Conoco Mini Mart

2. **Responsible party:**

   State Lead Site

3. **Responsible party mailing address** (list contact person if different)**:**

   2044 Galisteo Street
   Santa Fe, NM 87505

4. **Facility Number:**

   27498

5. **Address/legal description:**

   3837 US Hwy 64, Chama, NM

6. **Author/consulting company:**

   Tami Ross and Souder, Miller & Associates

7. **Date of report:**

   November 17, 2008

8. **Date of confirmation of release or date PSTB was notified of release:**

   May 16, 1994

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Tami C. Ross
Staff Scientist

Reid S. Allan
Vice President/Principal Scientist

November 17, 2008

I Introduction

A. Scope of Work:

This report is pursuant to the October 4, 2007 work plan approved by the New Mexico Environment Department (NMED) (WPID# 3264-3). On October 1, 2008, ground water samples were collected from seven site monitoring wells: MW-6, MW-7, MW-9, MW-10, MW-11, MW-12 and MW-13 as shown on Figure 2. The site location is illustrated in Figure 1.

B. This quarter's highlights, if any.

This is the fifth quarterly sampling event since the underground storage tank (UST) removal and remedial excavation on the north side of the site. The site excavation removed 1,060 cubic yards of hydrocarbon contaminated soil. UST removal, excavation, backfill, and compaction work was completed from December 11-15, 2006.

Contaminants of concern (COC) are above New Mexico Water Quality Control Commission Regulation (NMWQCCR) standards in monitoring wells MW-7 and MW-9. Concentrations of COCs have increased and decreased in individual wells since the last sampling event on June 27, 2008. Benzene concentrations are above NMWQCCR standard in MW-9, off-site monitoring well, for the first time since the installation of the monitoring well in April 2007. Tables 2 and 3 summarize the ground water sample analyses for this quarterly event.

Non-aqueous phase hydrocarbon liquid (NAPL) was not present in site monitoring wells.

II Activities Performed During This Quarter

A. Brief description of remediation system and date installed.

Not applicable.

B. Description of activities performed to keep system operating properly including: inspections, maintenance procedures and modifications, if any.

Not applicable.

C. Monitoring activities performed.

Volatile Organic Monitoring

Seven site monitoring wells (MW-6, MW-7, MW-9, MW-10, MW-11, MW-12, and MW-13) at the Conoco Mini Mart were sampled on October 1, 2008 and analyzed for volatile organics by EPA Method 8021 and polynuclear aromatic hydrocarbons by EPA Method 8310. Figures 4 – 6 are contaminant concentration contour maps. Procedures for sampling the monitoring wells are described in Appendix 1. Laboratory results are included in Appendix 3. Analytical results are provided in Tables 2 and 3.

The highest concentration of contaminants is located in the vicinity of MW-7. Based on this information, SMA believes that the car wash is potentially a second source for the ground water contamination plume.

During this quarterly sampling event, down gradient monitoring well MW-9 showed a notable increase in the concentrations of benzene, toluene, ethylbenzene and naphthalenes since the last sampling event in June, 2008. The benzene concentration exceeded NMWQCCR standards at 11.0 ppb during this sampling event.

Dissolved Lead Monitoring

Pursuant to the current scope of work, monitoring wells were not sampled for dissolved lead in this quarter. History of sampling for dissolved lead is recorded in Table 2.

Non-Aqueous Phase Liquid Monitoring

No NAPL was observed in site monitoring wells during this quarterly sampling event.

Ground Water Measurements

This quarter, seven site monitoring wells were gauged for depth to water on October 1, 2008. Field notes are included in Appendix 2. The historical ground water elevation data for the site can be found in Table 1. Figure 3 is a potentiometric surface map. In general, the direction of ground water flow is to the south at a gradient of 0.013 ft/ft. The ground water flow direction and gradient are consistent with historical monitoring results. Ground water levels have decreased an average of 0.60 feet since the June 2008 sampling event.

III Summary and Conclusions

A. Discussion of any trends or changes noted in analytical results or site conditions.

This quarterly sampling is the fifth sampling event since the UST removal and excavation. Contaminants of concern (benzene, total xylenes, and naphthalene) are above the NMWQCCR standards in monitoring wells MW-7 and MW-9.

Overtime, concentrations of COCs have decreased and increased in individual monitoring wells. It is not yet apparent whether the source area excavation of December 2006 has had a beneficial effect on dissolved phase contaminants of concern.

B. Ongoing assessment of remediation system.

Not applicable for this quarterly event.

C. Recommendations.

SMA recommends the following:

1. Due to the fact the soils remaining in place, beneath the car wash are above NMED standards for BTEX components and Naphthalenes, SMA recommends demolition of the car wash and removal of the soils beneath the car wash.
2. SMA recommends continued quarterly monitoring of all site monitoring wells.

Figures

1. Vicinity Map
2. Site Map
3. Potentiometric Surface Map
4. Benzene Concentration Map
5. Total Xylenes Concentration Map
6. Total Naphthalenes Concentration Map

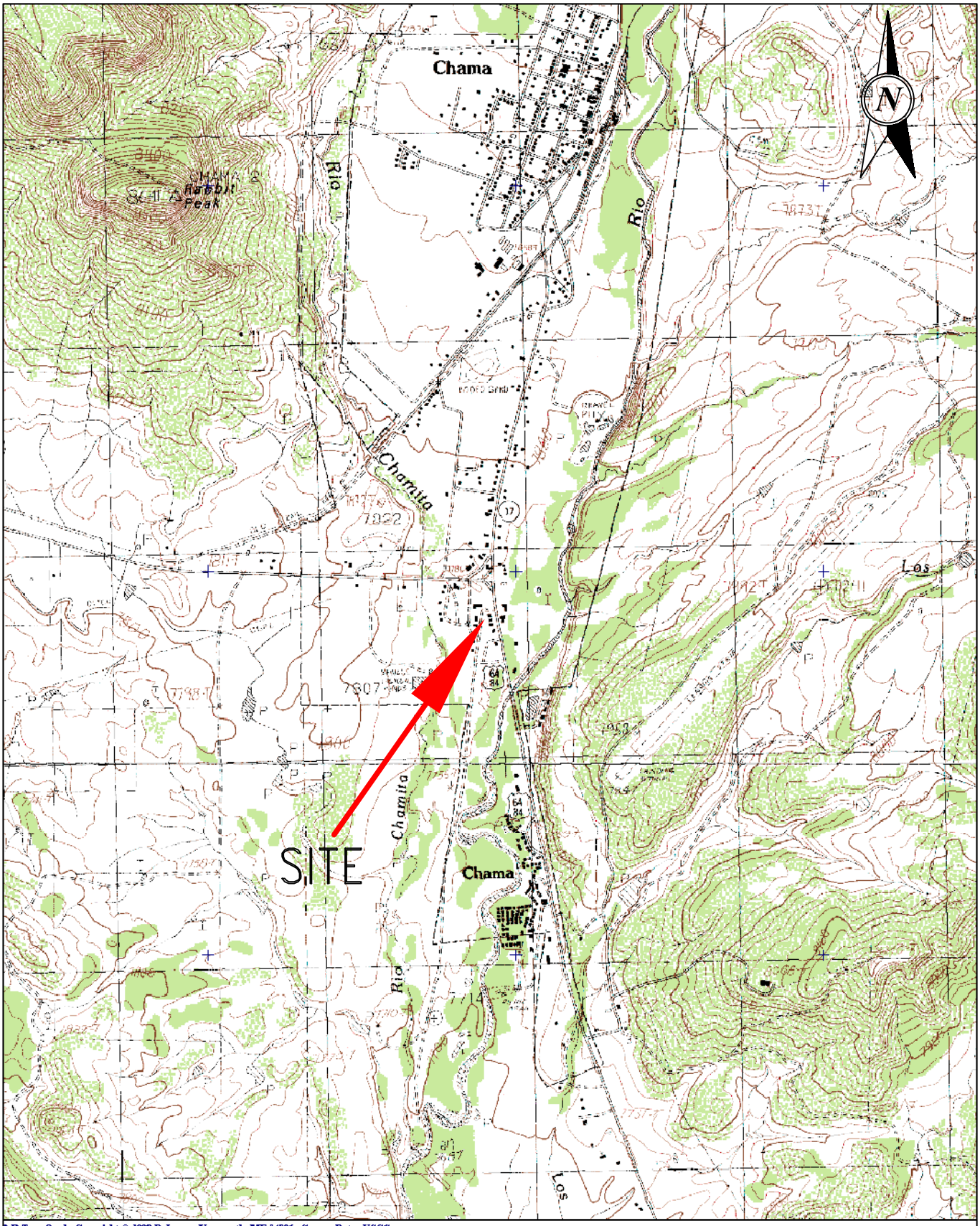
Tables

1. Summary of Ground Water Elevation Results
2. Summary of Ground Water Sample Analysis (8021)
3. Summary of Ground Water Sample Analysis (8310)

Appendices

1. Sampling protocol
2. Field notes
3. Laboratory results

Figures



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Santa Fe – Farmington
Albuquerque – Las Cruces

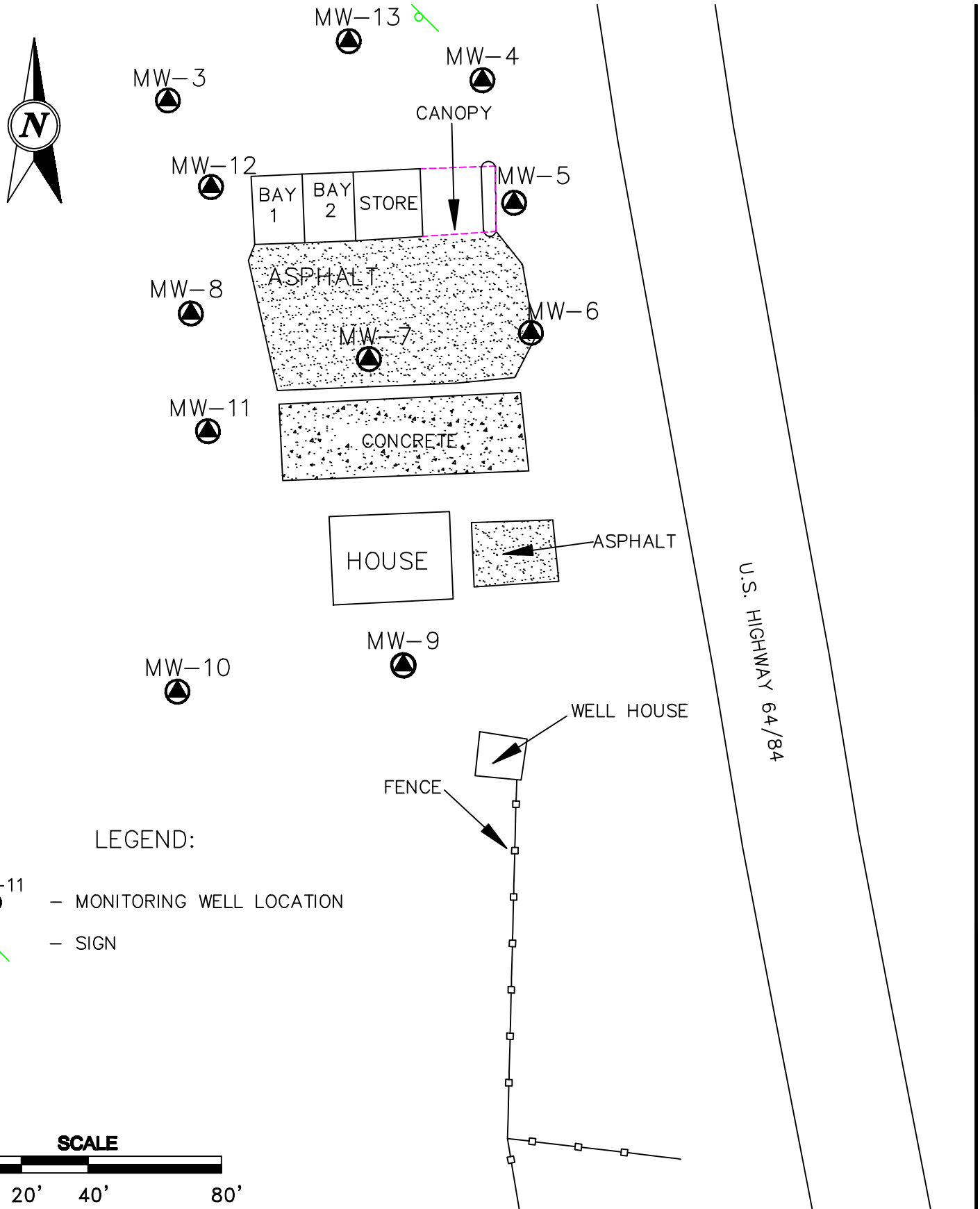
APPROVED: RCA	DATE: 8/8/06
DRAWN BY: TROSS	DATE: 8/8/06
REVISIONS BY:	DATE:
PROJECT NO: 3116075	FIGURE: 1

VICINITY MAP

CONOCO MINI MART

3837 HWY 64

CHAMA, NEW MEXICO



REVISED BY:	DATE:
DRAWN BY: TLONG	DATE: 4/25/07
APPROVED: RSA	DATE: 4/25/07
PROJECT NO. 3116075	FIGURE: 2

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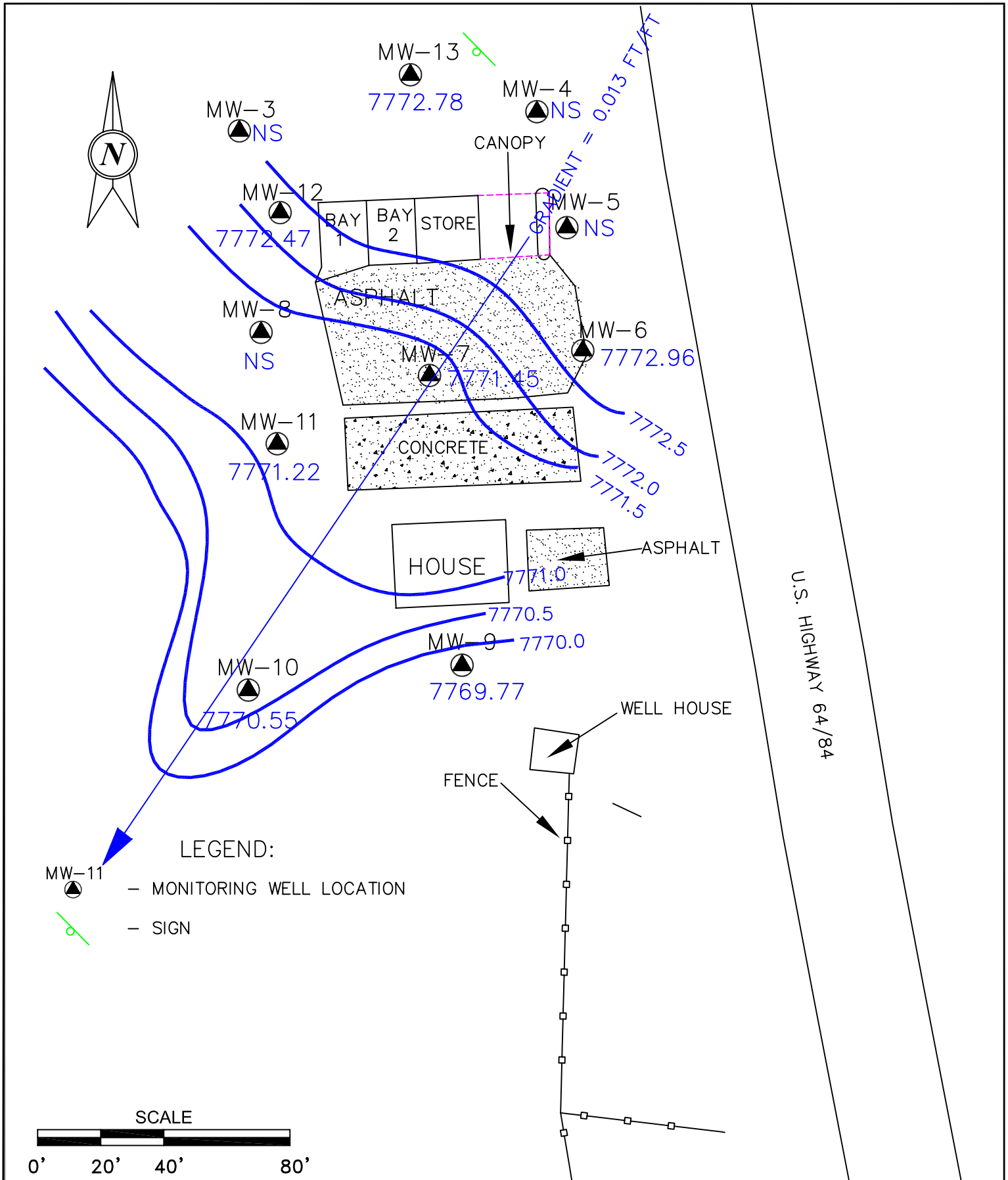
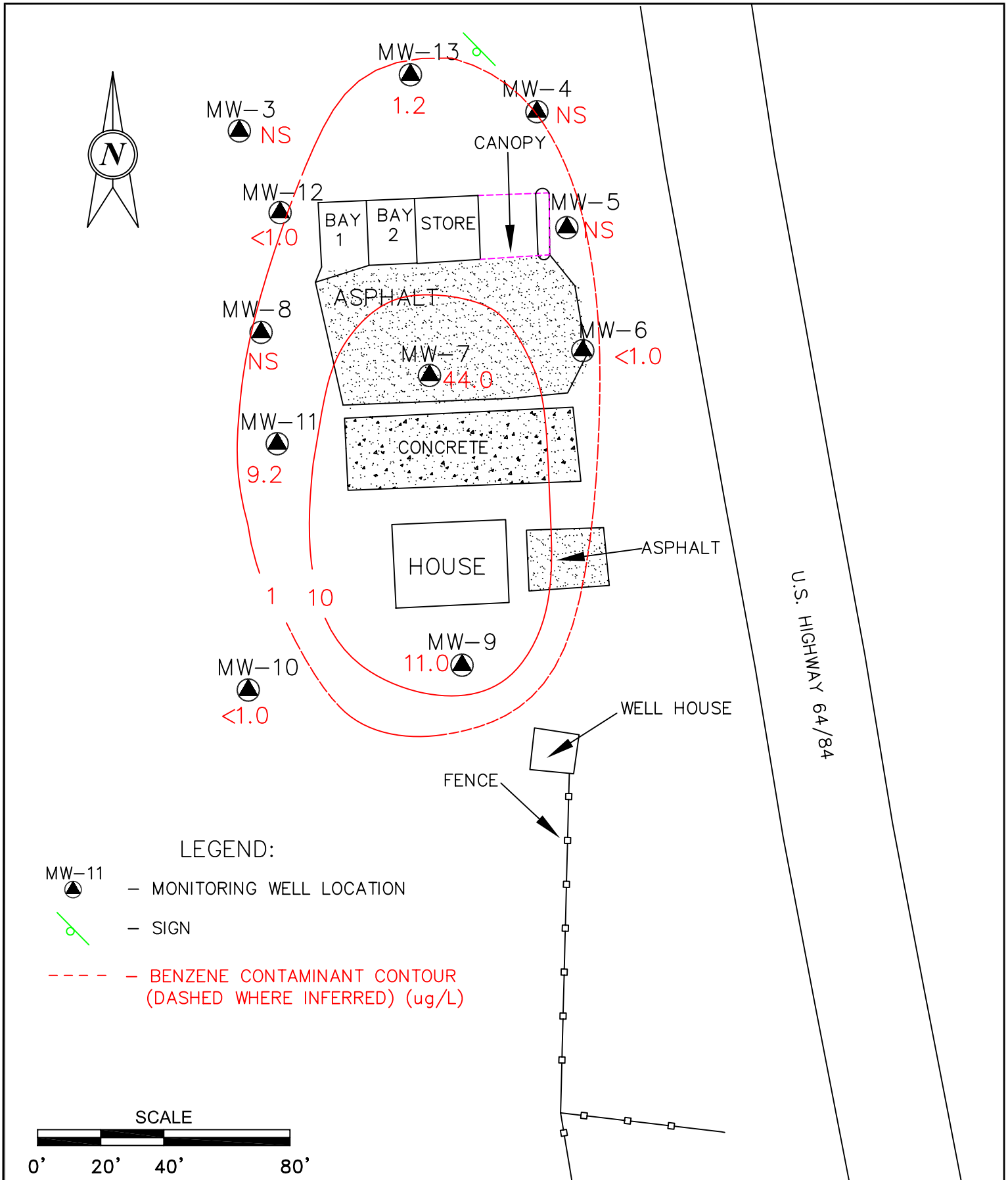
SITE MAP

CONOCO MINI MART
CHAMA, NEW MEXICO



SMA Civil / Environmental Scientists & Engineers	REVISED BY: LLAMONE	DATE: 11/05/08
	DRAWN BY: TLONG	DATE: 4/25/07
	APPROVED: RSA	DATE: 07/18/08
	PROJECT NO: 3116075	FIGURE: 3

POTENTIOMETRIC SURFACE MAP
OCTOBER 1, 2008
CONOCO MINI MART
CHAMA, NEW MEXICO



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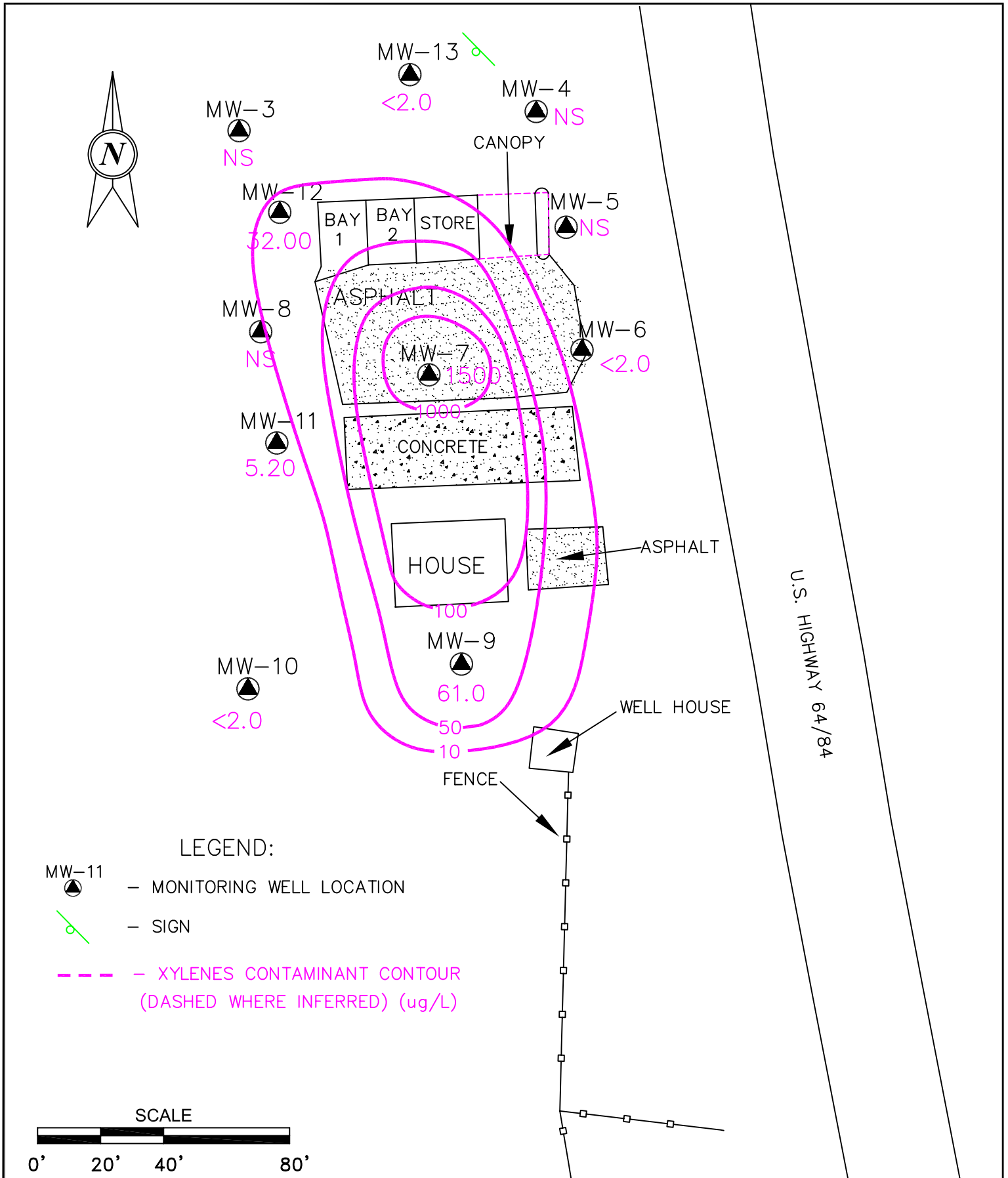
PROJECT NO: 3116075	FIGURE: 4

BENZENE CONTAMINANT CONCENTRATION MAP
October 1, 2008
CONOCO MINI MART
CHAMA, NEW MEXICO



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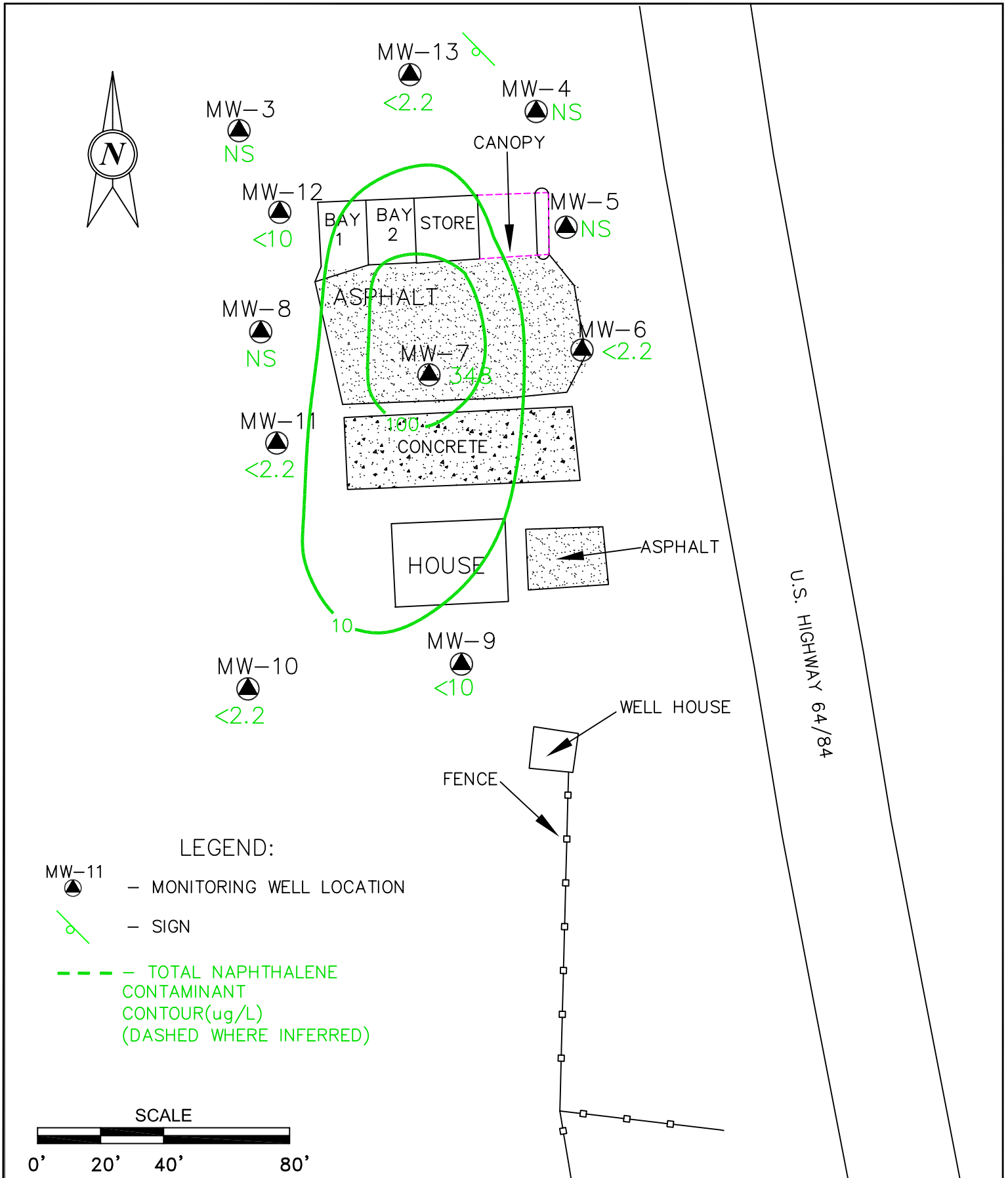
APPROVED: RSA	DATE: 11/19/07
PROJECT NO: 3116075	FIGURE: 5

TOTAL XYLENES CONTAMINANT CONCENTRATION MAP OCTOBER 1, 2008 CONOCO MINI MART CHAMA, NEW MEXICO



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APPROVED: RSA	DATE: 07/18/08
PROJECT NO: 3116075	FIGURE: 6

TOTAL NAPHTHALENES CONCENTRATION MAP OCTOBER 1, 2008 CONOCO MINI MART CHAMA, NEW MEXICO

Table 1
Summary of Groundwater Elevation Results
Conoco Mini Mart
Chama, New Mexico

(Feet)

Monitoring Well Identification	Date	Total Depth of Well	Top of Casing	Depth to Water	Relative Water Elevation
MW-1	*7/8/2005*	*15.00*	*7780.17*	*5.74*	*7774.43*
	7/10/2006	*14.71*		*5.26*	*7774.91*
	4/4/2007	*DESTROYED DURING TANK PULL*			
MW-2	*7/8/2005*	*15.00*	*7779.97*	*6.01*	*7773.96*
	7/10/2006	*15.75*		*5.78*	*7774.19*
	4/4/2007	*DESTROYED DURING TANK PULL*			
MW-3	*7/8/2005*	*15.50*	*7780.16*	*5.76*	*7774.40*
	7/10/2006	*15.00*		*6.21*	*7773.95*
	4/4/2007	*UNABLE TO LOCATE*			
MW-4	*7/8/2005*	*15.50*	*7779.55*	*4.40*	*7775.15*
	7/10/2006	*14.94*		*4.58*	*7774.97*
	4/4/2007	*14.09*		*2.96*	*7776.59*
MW-5	*7/8/2005*	*15.00*	*7779.02*	*5.76*	*7773.26*
	7/10/2006	*14.60*		*5.93*	*7773.09*
	4/4/2007	*14.65*		*3.39*	*7775.63*
MW-6	*7/8/2005*	*12.00*	*7778.61*	*5.63*	*7772.98*
	7/10/2006	*11.30*		*5.90*	*7772.71*
	4/4/2007	*11.30*		*3.74*	*7774.87*

Table 1
Summary of Groundwater Elevation Results
Conoco Mini Mart
Chama, New Mexico

(Feet)

Monitoring Well Identification	Date	Total Depth of Well	Top of Casing	Depth to Water	Relative Water Elevation
MW-7	*7/8/2005*	*12.50*	*7779.28*	*6.84*	*7772.44*
	7/10/2006	*11.90*		*6.59*	*7772.69*
	4/4/2007	*12.00*		*4.79*	*7774.49*
MW-8	*7/8/2005*	*15.00*	*7779.64*	*7.76*	*7771.88*
	7/10/2006	*14.85*		*7.91*	*7771.73*
	4/4/2007	*14.95*		*6.71*	*7772.93*
MW-9	*4/4/2007*	*11.30*	*7777.49*	*4.92*	*7772.57*
MW-10	*4/4/2007*	*13.30*	*7777.61*	*4.88*	*7772.73*
MW-11	*4/4/2007*	*12.00*	*7778.53*	*4.74*	*7773.79*
MW-12	*4/4/2007*	*13.55*	*7780.28*	*5.75*	*7774.53*
MW-13	*4/4/2007*	*13.55*	*7780.47*	*5.99*	*7774.48*
AVERAGE DEPTH TO GROUNDWATER	*4.79 FEET*				
AVERAGE INCREASE IN ELEVATION	*1.86 Feet*				

Table 2
Summary of Groundwater Sample Analytical Results
US EPA Method 8021
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-1	*7/8/2005*	***58.0***	*2.1*	*160.0*	*290.0*	*510.1*	*<1.0*	NA
	7/10/2006	5.8	<0.5	17.9	13.2	36.9	<1.0	NA
	4/4/2007	DESTROYED DURING TANK PULL						
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-2	*7/8/2005*	***290.0***	*32.0*	*720.0*	***1800.0***	*2842.0*	*<5.0*	NA
	7/10/2006	**174.0**	9.0	357.0	418.3	958.3	11.5	NA
	4/4/2007	DESTROYED DURING TANK PULL						
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-3	*7/8/2005*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	NA
	7/10/2006	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	NA
	4/4/2007	UNABLE TO LOCATE						
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-4	*7/8/2005*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	NA
	7/10/2006	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	NA
	4/4/2007	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<0.009
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Table 2
Summary of Groundwater Sample Analytical Results
US EPA Method 8021
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-5	*7/8/2005*	*<1.0*	*4.8*	*210.0*	***940.0***	*1154.8*	*<1.0*	NA
	7/10/2006	<0.5	1.9	142.0	255.5	399.4	1.7	NA
	4/4/2007	1.9	0.49	195.0	282.9	478.4	<1.0	<0.009
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-6	*7/8/2005*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	NA
	7/10/2006	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	NA
	4/4/2007	<2.5	<2.5	<2.5	0.87	0.87	<5.0	<0.009
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-7	*7/8/2005*	***700.0***	*86.0*	*530.0*	***1300.0***	*2616.0*	*<10*	NA
	7/10/2006	**50.0**	21.7	399.0	**1264.0**	1734.7	17.5	NA
	4/4/2007	**62.6**	12.00	508.0	**1655.00**	2237.60	23.3	<0.009
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-8	*7/8/2005*	***49.0***	*42.0*	*600.0*	***1600.0***	*2291.0*	*<10*	NA
	7/10/2006	**75.8**	3.7	425.0	503.0	1007.5	44.3	NA
	4/4/2007	**49.7**	7.96	570.0	**1126.90**	1754.56	80.9	<0.018
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Table 2
Summary of Groundwater Sample Analytical Results
US EPA Method 8021
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-9	4/4/2007	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<0.009
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-10	4/4/2007	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<0.009
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-11	4/4/2007	31.1	16.1	138.0	70.98	256.2	<5.0	<0.009
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-12	4/4/2007	10.9	<2.5	43.5	129.00	183.4	<5.0	<0.009
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-13	4/4/2007	19.7	8.36	193.0	380.60	601.7	19.7	<0.009
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Notes:

Data in itilics adopted from INTERA report dated 9/7/2005 (analyzed per Method 8260)
Method 8021 results in ug/L; Method 6010 results in mg/L
MTBE = Methyl Tertiary Butyl Ether
Red indicates concentration exceeds standard
NA = Not Analyzed

Table 3
Summary of Groundwater Analytical Results
US EPA Method 8310
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-1	7/10/2006	<0.943	<0.943	<0.189	<0.0943	<0.0943	<0.132	<0.0943	<0.189	<0.189	<0.472	1.57	<0.472	<0.189
	4/4/2007	DESTROYED DURING TANK PULL												
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-2	7/10/2006											**620.00**		
	4/4/2007	DESTROYED DURING TANK PULL												
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-3	7/10/2006	<0.943	<0.943	<0.189	<0.0943	<0.0943	<0.132	<0.0943	<0.189	<0.189	<0.472	<0.943	<0.472	<0.189
	4/4/2007	UNABLE TO LOCATE												
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-4	7/10/2006	<1.0	<1.0	<0.2	<0.1	<0.1	<0.14	<0.1	<0.2	<0.2	<0.5	<1.0	<0.5	<0.2
	4/4/2007	<1.00	<1.00	<0.2	<0.1	<0.1	<0.14	<0.1	<0.2	<0.2	<0.5	<1.0	<0.5	<0.2
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-5	7/10/2006	<0.952	<0.952	<0.19	<0.0952	<0.0952	<0.133	0.334	<0.19	<0.19	<0.476	**96.9**	<0.476	<0.19
	4/4/2007	<1.18	<1.18	<0.235	<0.118	<0.118	<0.165	<0.118	<0.235	<0.235	<0.588	**104.7**	<0.588	<0.235
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-6	7/10/2006	<0.943	<0.943	<0.189	<0.0943	<0.0943	<0.132	<0.0943	<0.189	<0.189	<0.472	<0.943	<0.472	<0.189
	4/4/2007	<0.980	<0.980	<0.196	<0.0980	<0.0980	<0.137	<0.0980	<0.196	<0.196	<0.490	<0.980	<0.490	<0.196
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-7	7/10/2006	73.00	<0.943	<0.189	<0.0943	**12.7**	<0.132	<0.0943	<0.189	<0.189	<0.472	**427.6**	30.6	0.273
	4/4/2007	71.50	<1.25	<0.250	<0.125	<0.125	<0.175	<0.125	<0.250	<0.250	6.68	**488.5**	19.5	<0.250
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Table 3
Summary of Groundwater Analytical Results
US EPA Method 8310
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-8	7/10/2006	5.73	<0.952	<0.190	<0.0952	<0.0952	<0.133	<0.0952	<0.190	<0.190	<0.476	**74.1**	24.5	<0.190
	4/4/2007	63.60	<0.980	<0.196	<0.0980	<0.0980	<0.137	<0.0980	<0.196	<0.196	5.44	**233.70**	36.6	<0.196
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-9	4/4/2007	<0.971	<0.971	<0.194	<0.0971	<0.0971	<0.136	<0.0971	<0.194	<0.194	<0.485	<0.971	<0.485	<0.194
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-10	4/4/2007	<0.971	<0.971	<0.194	<0.0971	<0.0971	<0.136	<0.0971	<0.194	<0.194	<0.485	<0.971	<0.485	<0.194
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-11	4/4/2007	24.20	<0.971	<0.194	<0.0971	<0.0971	<0.136	<0.0971	<0.190	<0.194	<0.485	**52.8**	15.2	1.86
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-12	4/4/2007	18.80	<0.990	<0.198	<0.099	<0.099	<0.139	<0.099	<0.198	<0.198	<0.495	**39.98**	18.1	<0.198
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-13	4/4/2007	16.90	<1.18	<0.235	<0.118	<0.118	<0.165	<0.118	<0.235	<0.235	<0.588	**69.6**	<0.588	<0.235
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Notes:

Methods 8310 results in ug/L
Red indicates concentration exceeds standard

Tables

Table 1
Summary of Groundwater Elevation Results
Conoco Mini Mart
Chama, New Mexico

(Feet)

Monitoring Well Identification	Date	Total Depth of Well	Top of Casing	Depth to Water	Relative Water Elevation
MW-1	*7/8/2005*	*15.00*	*7780.17*	*5.74*	*7774.43*
	7/10/2006	*14.71*		*5.26*	*7774.91*
	4/4/2007	*DESTROYED DURING TANK PULL*			
MW-2	*7/8/2005*	*15.00*	*7779.97*	*6.01*	*7773.96*
	7/10/2006	*15.75*		*5.78*	*7774.19*
	4/4/2007	*DESTROYED DURING TANK PULL*			
MW-3	*7/8/2005*	*15.50*	*7780.16*	*5.76*	*7774.40*
	7/10/2006	*15.00*		*6.21*	*7773.95*
	4/4/2007	*UNABLE TO LOCATE*			
	10/25/2007	*NOT MEASURED*			
MW-4	*7/8/2005*	*15.50*	*7779.55*	*4.40*	*7775.15*
	7/10/2006	*14.94*		*4.58*	*7774.97*
	4/4/2007	*14.09*		*2.96*	*7776.59*
	10/25/2007	*NOT MEASURED*			
	4/1/2008	*NOT MEASURED*			
	6/27/2008	*NOT MEASURED*			
	10/1/2008	*NOT MEASURED*			
MW-5	*7/8/2005*	*15.00*	*7779.02*	*5.76*	*7773.26*
	7/10/2006	*14.60*		*5.93*	*7773.09*
	4/4/2007	*14.65*		*3.39*	*7775.63*
	10/25/2007	*NOT MEASURED*			
	4/1/2008	*NOT MEASURED*			
	6/27/2008	*NOT MEASURED*			
	10/1/2008	*NOT MEASURED*			
MW-6	*7/8/2005*	*12.00*	*7778.61*	*5.63*	*7772.98*
	7/10/2006	*11.30*		*5.90*	*7772.71*
	4/4/2007	*11.30*		*3.74*	*7774.87*
	10/25/2007	*11.29*		*5.31*	*7773.30*
	4/1/2008	*11.34*		*2.40*	*7776.21*
	6/27/2008	*11.45*		*5.22*	*7773.39*
	10/1/2008	*11.42*		*5.65*	*7772.96*

Table 1
Summary of Groundwater Elevation Results
Conoco Mini Mart
Chama, New Mexico

(Feet)

Monitoring Well Identification	Date	Total Depth of Well	Top of Casing	Depth to Water	Relative Water Elevation
MW-7	7/8/2005	12.50	7779.28	6.84	7772.44
	7/10/2006	11.90		6.59	7772.69
	4/4/2007	12.00		4.79	7774.49
	10/25/2007	11.95		7.33	7771.95
	4/1/2008	12.13		3.61	7775.67
	6/27/2008	12.12		6.96	7772.32
	10/1/2008	12.14		7.83	7771.45
MW-8	7/8/2005	15.00	7779.64	7.76	7771.88
	7/10/2006	14.85		7.91	7771.73
	4/4/2007	14.95		6.71	7772.93
	10/25/2007	NOT MEASURED			
	4/1/2008	NOT MEASURED			
	6/27/2008	NOT MEASURED			
	10/1/2008	NOT MEASURED			
MW-9	4/4/2007	11.30	7777.49	4.92	7772.57
	10/25/2007	10.52		7.26	7770.23
	4/1/2008	13.14		3.23	7774.26
	6/27/2008	12.86		6.95	7770.54
	10/1/2008	12.96		7.72	7769.77
MW-10	4/4/2007	13.30	7777.61	4.88	7772.73
	10/25/2007	13.17		6.75	7770.86
	4/1/2008	13.40		2.68	7774.93
	6/27/2008	13.40		6.51	7771.10
	10/1/2008	13.40		7.06	7770.55
MW-11	4/4/2007	12.00	7778.53	4.74	7773.79
	10/25/2007	14.81		7.83	7770.70
	4/1/2008	11.40		3.04	7775.49
	6/27/2008	11.44		6.76	7771.77
	10/1/2008	11.30		7.31	7771.22
MW-12	4/4/2007	13.55	7780.28	5.75	7774.53
	10/25/2007	12.84		7.60	7772.68
	4/1/2008	12.97		3.93	7776.35
	6/27/2008	13.00		7.38	7772.90
	10/1/2008	12.95		7.81	7772.47
MW-13	4/4/2007	13.55	7780.47	5.99	7774.48
	10/25/2007	14.51		7.57	7772.90
	4/1/2008	13.67		3.54	7776.93
	6/27/2008	13.69		7.10	7773.37
	10/1/2008	13.69		7.69	7772.78
AVERAGE DEPTH TO GROUNDWATER	7.30				
AVERAGE DECREASE IN ELEVATION	0.60 Feet				

Table 2
Summary of Groundwater Sample Analytical Results
US EPA Method 8021
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-1	*7/8/2005*	***58.0***	*2.1*	*160.0*	*290.0*	*510.1*	*<1.0*	NA
	7/10/2006	5.8	<0.5	17.9	13.2	36.9	<1.0	NA
	4/4/2007	DESTROYED DURING TANK PULL						
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-2	*7/8/2005*	***290.0***	*32.0*	*720.0*	***1800.0***	*2842.0*	*<5.0*	NA
	7/10/2006	**174.0**	9.0	357.0	418.3	958.3	11.5	NA
	4/4/2007	DESTROYED DURING TANK PULL						
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-3	*7/8/2005*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	NA
	7/10/2006	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	NA
	4/4/2007	UNABLE TO LOCATE						
	10/25/2007	NOT SAMPLED						
	4/1/2008	NOT SAMPLED						
	6/27/2008	NOT SAMPLED						
	10/1/2008	NOT SAMPLED						
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-4	*7/8/2005*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	NA
	7/10/2006	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	NA
	4/4/2007	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<0.009
	10/25/2007	NOT SAMPLED						
	4/1/2008	NOT SAMPLED						
	6/27/2008	NOT SAMPLED						
	10/1/2008	NOT SAMPLED						
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Table 2
Summary of Groundwater Sample Analytical Results
US EPA Method 8021
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-5	*7/8/2005*	*<1.0*	*4.8*	*210.0*	***940.0***	*1154.8*	*<1.0*	NA
	7/10/2006	<0.5	1.9	142.0	255.5	399.4	1.7	NA
	4/4/2007	1.9	0.49	195.0	282.9	478.4	<1.0	<0.009
	10/25/2007	NOT SAMPLED						
	4/1/2008	NOT SAMPLED						
	6/27/2008	NOT SAMPLED						
	10/1/2008	NOT SAMPLED						
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-6	*7/8/2005*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	NA
	7/10/2006	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	NA
	4/4/2007	<2.5	<2.5	<2.5	0.87	0.87	<5.0	<0.009
	10/25/2007	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
	4/1/2008	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
	6/27/2008	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
	10/1/2008	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-7	*7/8/2005*	***700.0***	*86.0*	*530.0*	***1300.0***	*2616.0*	*<10*	NA
	7/10/2006	**50.0**	21.7	399.0	**1264.0**	1734.7	17.5	NA
	4/4/2007	**62.6**	12.00	508.0	**1655.00**	2237.60	23.3	<0.009
	10/25/2007	**36.0**	19.00	480.0	**1400.00**	1935.00	<25	NA
	4/1/2008	**48.0**	18.00	530.0	**1500.00**	2096.00	<25	NA
	6/27/2008	**49.0**	17.00	680.0	**2500.00**	3246.00	<25	NA
	10/1/2008	**44.0**	15.00	590.0	**1500.00**	2149.00	<25	NA
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-8	*7/8/2005*	***49.0***	*42.0*	*600.0*	***1600.0***	*2291.0*	*<10*	NA
	7/10/2006	**75.8**	3.7	425.0	503.0	1007.5	44.3	NA
	4/4/2007	**49.7**	7.96	570.0	**1126.90**	1754.56	80.9	<0.018
	10/25/2007	NOT SAMPLED						
	4/1/2008	NOT SAMPLED						
	6/27/2008	NOT SAMPLED						
	10/1/2008	NOT SAMPLED						
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Table 2
Summary of Groundwater Sample Analytical Results
US EPA Method 8021
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-9	4/4/2007	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<0.009
	10/25/2007	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
	4/1/2008	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
	6/27/2008	8.2	3.9	50.0	<2.0	62.10	<2.5	NA
	10/1/2008	**11.0**	7.5	58.0	61.0	137.50	<2.5	NA
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-10	4/4/2007	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<0.009
	10/25/2007	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
	4/1/2008	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
	6/27/2008	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
	10/1/2008	<1.0	<1.0	<1.0	<2.0	<1.0	<2.5	NA
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-11	4/4/2007	**31.1**	16.1	138.0	70.98	256.2	<5.0	<0.009
	10/25/2007	**21.0**	5.4	280.0	13.00	319.4	17.0	NA
	4/1/2008	**11.0**	<1.0	24.0	9.10	44.1	<2.5	NA
	6/27/2008	**18.0**	<1.0	130.0	8.80	156.8	<2.5	NA
	10/1/2008	9.2	<1.0	47.0	5.20	61.4	<2.5	NA
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-12	4/4/2007	**10.9**	<2.5	43.5	129.00	183.4	<5.0	<0.009
	10/25/2007	1.9	<1.0	35.0	76.00	112.9	2.7	NA
	4/1/2008	3.2	11.0	150.0	**750.00**	914.2	2.5	NA
	6/27/2008	<1.0	1.2	78.0	420.00	499.2	2.5	NA
	10/1/2008	<1.0	<1.0	12.0	32.00	44.0	<2.5	NA
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Monitoring Well Identification	Method 8021							Method 6010
	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Lead
MW-13	4/4/2007	**19.7**	8.36	193.0	380.60	601.7	19.7	<0.009
	10/25/2007	1.7	<1.0	36.0	13.00	50.7	<2.5	NA
	4/1/2008	1.6	<1.0	32.0	89.00	122.6	<2.5	NA
	6/27/2008	1.5	<1.0	47.0	16.00	64.5	<2.5	NA
	10/1/2008	1.2	<1.0	21.0	<2.0	22.2	<2.5	NA
NMWQCC and 20 NMAC 5 Standards		10.0	750.0	750.0	620.0		100.0	0.05

Notes:

Data in itilics adopted from INTERA report dated 9/7/2005 (analyzed per Method 8260)
Method 8021 results in ug/L; Method 6010 results in mg/L
MTBE = Methyl Tertiary Butyl Ether
Red indicates concentration exceeds standard
NA = Not Analyzed

Table 3
Summary of Groundwater Analytical Results
US EPA Method 8310
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Date	Method 8310												
		Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-1	7/10/2006	<0.943	<0.943	<0.189	<0.0943	<0.0943	<0.132	<0.0943	<0.189	<0.189	<0.472	1.57	<0.472	<0.189
	4/4/2007	DESTROYED DURING TANK PULL												
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Date	Method 8310												
		Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-2	7/10/2006											**620.00**		
	4/4/2007	DESTROYED DURING TANK PULL												
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Date	Method 8310												
		Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-3	7/10/2006	<0.943	<0.943	<0.189	<0.0943	<0.0943	<0.132	<0.0943	<0.189	<0.189	<0.472	<0.943	<0.472	<0.189
	4/4/2007	UNABLE TO LOCATE												
	10/25/2007	NOT SAMPLED												
	4/1/2008	NOT SAMPLED												
	6/27/2008	NOT SAMPLED												
	10/1/2008	NOT SAMPLED												
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Date	Method 8310												
		Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-4	7/10/2006	<1.0	<1.0	<0.2	<0.1	<0.1	<0.14	<0.1	<0.2	<0.2	<0.5	<1.0	<0.5	<0.2
	4/4/2007	<1.00	<1.00	<0.2	<0.1	<0.1	<0.14	<0.1	<0.2	<0.2	<0.5	<1.0	<0.5	<0.2
	10/25/2007	NOT SAMPLED												
	4/1/2008	NOT SAMPLED												
	6/27/2008	NOT SAMPLED												
	10/1/2008	NOT SAMPLED												
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Date	Method 8310												
		Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-5	7/10/2006	<0.952	<0.952	<0.19	<0.0952	<0.0952	<0.133	0.334	<0.19	<0.19	<0.476	**96.9**	<0.476	<0.19
	4/4/2007	<1.18	<1.18	<0.235	<0.118	<0.118	<0.165	<0.118	<0.235	<0.235	<0.588	**104.7**	<0.588	<0.235
	10/25/2007	NOT SAMPLED												
	4/1/2008	NOT SAMPLED												
	6/27/2008	NOT SAMPLED												
	10/1/2008	NOT SAMPLED												
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Date	Method 8310												
		Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-6	7/10/2006	<0.943	<0.943	<0.189	<0.0943	<0.0943	<0.132	<0.0943	<0.189	<0.189	<0.472	<0.943	<0.472	<0.189
	4/4/2007	<0.980	<0.980	<0.196	<0.0980	<0.0980	<0.137	<0.0980	<0.196	<0.196	<0.490	<0.980	<0.490	<0.196
	10/25/2007	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	<6.0	<0.60	<0.30
	4/1/2008	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	<2.0	<0.60	<0.30
	6/27/2008	<5.0	<0.60	<0.070	<0.070	<0.10	<0.070	<0.20	<0.070	<0.30	<0.80	<2.0	<0.60	<0.30
	10/1/2008	<5.6	<0.67	<0.078	<0.078	<0.11	<0.078	<0.22	<0.078	<0.33	<0.89	<2.2	<0.67	<0.33
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Date	Method 8310												
		Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-7	7/10/2006	73.00	<0.943	<0.189	<0.0943	**12.7**	<0.132	<0.0943	<0.189	<0.189	<0.472	**427.6**	30.6	0.273
	4/4/2007	71.50	<1.25	<0.250	<0.125	<0.125	<0.175	<0.125	<0.250	<0.250	6.68	**488.5**	19.5	<0.250
	10/25/2007	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	**220.0**	<0.60	<0.30
	4/1/2008	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	**326.0**	<0.60	<0.30
	6/27/2008	<5.0	<0.60	<0.070	<0.070	<0.10	<0.070	<0.20	<0.070	<0.30	<0.80	**163.0**	<0.60	<0.30
	10/1/2008	<25	<3.0	<0.35	<0.35	<0.50	<0.35	<1.0	<0.035	<1.5	<4.0	**348.00**	<3.0	<1.5
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Table 3
Summary of Groundwater Analytical Results
US EPA Method 8310
Conoco Mini Mart
Chama, New Mexico

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-8	7/10/2006	5.73	<0.952	<0.190	<0.0952	<0.0952	<0.133	<0.0952	<0.190	<0.190	<0.476	**74.1**	24.5	<0.190
	4/4/2007	63.60	<0.980	<0.196	<0.0980	<0.0980	<0.137	<0.0980	<0.196	<0.196	5.44	**233.70**	36.6	<0.196
	10/25/2007	NOT SAMPLED												
	4/1/2008	NOT SAMPLED												
	6/27/2008	NOT SAMPLED												
	10/1/2008	NOT SAMPLED												
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-9	4/4/2007	<0.971	<0.971	<0.194	<0.0971	<0.0971	<0.136	<0.0971	<0.194	<0.194	<0.485	<0.971	<0.485	<0.194
	10/25/2007	<5.0	<0.60	0.05	<0.030	<0.10	<0.020	0.20	<0.040	<0.30	<.80	<6.0	<.0.60	<0.30
	4/1/2008	<5.0	<0.60	<0.07	<0.030	<0.10	<0.020	<0.2	<0.040	<0.30	<.80	<2.0	<.0.60	<0.30
	6/27/2008	<5.0	<0.60	<0.070	<0.070	<0.10	<0.070	<0.20	<0.070	<0.30	<0.80	5.00	<0.60	<0.30
	10/1/2008	<25	<3.0	<0.35	<0.35	<0.50	<0.35	<1.0	<0.035	<1.5	<4.0	<10	<3.0	<1.5
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-10	4/4/2007	<0.971	<0.971	<0.194	<0.0971	<0.0971	<0.136	<0.0971	<0.194	<0.194	<0.485	<0.971	<0.485	<0.194
	10/25/2007	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	<6.0	<0.60	<0.30
	4/1/2008	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	<2.0	<0.60	<0.30
	6/27/2008	<5.0	<0.60	<0.070	<0.070	<0.10	<0.070	<0.20	<0.070	<0.30	<0.80	<2.0	<0.60	<0.30
	10/1/2008	<5.6	<0.67	<0.078	<0.078	<0.11	<0.078	<0.22	<0.078	<0.33	<0.89	<2.2	<0.67	<0.33
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-11	4/4/2007	24.20	<0.971	<0.194	<0.0971	<0.0971	<0.136	<0.0971	<0.190	<0.194	<0.485	**52.8**	15.2	1.86
	10/25/2007	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	14.9	<0.60	<0.30
	4/1/2008	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	3.1	<0.60	<0.30
	6/27/2008	<5.0	<0.60	<0.070	<0.070	<0.10	<0.070	<0.20	<0.070	<0.30	<0.80	5.5	<0.60	<0.30
	10/1/2008	<5.6	<0.67	<0.078	<0.078	<0.11	<0.078	<0.22	<0.078	<0.33	<0.89	<2.2	<0.67	<0.33
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-12	4/4/2007	18.80	<0.990	<0.198	<0.099	<0.099	<0.139	<0.099	<0.198	<0.198	<0.495	**39.98**	18.1	<0.198
	10/25/2007	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	2.1	<0.60	<0.30
	4/1/2008	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	12.0	<0.60	<0.30
	6/27/2008	<5.0	<0.60	<0.070	<0.070	<0.10	<0.070	<0.20	<0.070	<0.30	<0.80	**62.00**	0.83	<0.30
	10/1/2008	<25	<3.0	<0.35	<0.35	<0.50	<0.35	<1.0	<0.035	<1.5	<4.0	<10	<3.0	<1.5
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Monitoring Well Identification	Method 8310													
	Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Total Naphthalenes	Phenanthrene	Pyrene
MW-13	4/4/2007	16.90	<1.18	<0.235	<0.118	<0.118	<0.165	<0.118	<0.235	<0.235	<0.588	**69.6**	<0.588	<0.235
	10/25/2007	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	2.2	<0.60	<0.30
	4/1/2008	<5.0	<0.60	<0.050	<0.030	<0.10	<0.020	<0.20	<0.040	<0.30	<0.80	<2.0	<0.60	<0.30
	6/27/2008	<5.0	<0.60	<0.070	<0.070	<0.10	<0.070	<0.20	<0.070	<0.30	<0.80	12.80	<0.60	<0.30
	10/1/2008	<5.6	<0.67	<0.078	<0.078	<0.11	<0.078	<0.22	<0.078	<0.33	<0.89	<2.2	<0.67	<0.33
NMWQCC Standard		2200.00	11000.00	1.20	0.70	1.20	1.20	117.00	0.12	1460.00	1460.00	30.00	1100.00	1100.00

Notes:

Methods 8310 results in ug/L
Red indicates concentration exceeds standard

Appendix 1

Sampling Protocol

Ground water samples were collected as established in the New Mexico Underground Storage Tank Bureau Guidelines for Corrective Action promulgated March 2000.

Water levels were measured prior to sample collection using a cleaned water level probe beginning with least contaminated, or clean monitoring wells to the most contaminated monitoring wells. Water levels of each monitoring well were recorded in field form. The water level probe was rinsed three times with distilled water prior to measuring water level in each monitoring well.

Monitoring wells were purged of three well bore volumes or until the well went dry prior to sampling. Samples collected for Method 8260 were collected in 40 ml vials, preserved with mercuric chloride, labeled with the date, time, monitoring well number, and the name of the sampler, and stored on ice. Samples collected for Method 8310 were collected in 1 L amber bottles, labeled with the date, time, monitoring well number and the name of the sampler, and stored on ice. Samples collected for Method 6010 were collected in 125 mL polypropylene bottles, labeled with the date, time, monitoring well number and the name of the sampler, and stored on ice.

Sample numbers were recorded on chain of custody forms and field notebook prior to delivery to the analyzing laboratory.

Appendix 2

Field Notes, Copies

WELL PURGE RECORD

JOB NAME: Conoco Mini Mart	DATE: 10-01-08 TIME: 0944
CHAMA, NM	
JOB #: 3116075	SMA Representative: L. LAMONS

MONITORING WELL: 6
SAMPLING METHOD: USEPA SW846
FIELD CONDITIONS: Clear / WARM

DECONTAMINATION METHOD: SINGLE USE BAILER, FIELD EQUIPMENT: ALCANOX WASH, TRIPLE DI WATER RINSE

Total Depth of well: 11.42 feet
Depth to water before purging 5.65 feet

Height of Water Column in Feet	Well PVC Diameter		1 Volume in Gallons	Minimum Purge Volumes	Volume to Purge in Gallons
	~~2-inch~~	4-inch		3	
5.77	0.163	0.653			30

TIME	VOLUME PURGED	pH	SPECIFIC CONDUCTIVITY	TEMP IN °C	DISOLVED OXYGEN	TURBIDITY	COMMENTS
0951	0.5 gal	6.97	0.45	19.0	N/A	N/A	clear
0953	1.0 gal	6.96	0.43	18.4	↓	↓	H2O "pumkin" color
0955	2.0 gal	6.55	0.43	18.1			NO odor
1000	30 gal	6.61	0.43	18.1			NO sheen

WELL PURGE RECORD

JOB NAME: Conoco Mini Mart	DATE: 10-01-08 TIME: 1158
CHAMA, NM	
JOB #: 3116075	~~Sampling~~ SMA Representative: L. LAMONE

MONITORING WELL: 7
SAMPLING METHOD: USEPA SW846
FIELD CONDITIONS: clear / warm

DECONTAMINATION METHOD: SINGLE USE BAILER, FIELD EQUIPMENT: ALCANOX WASH, TRIPLE DI WATER RINSE

Total Depth of well: 12.14 feet
Depth to water before purging 7.83 feet

Height of Water Column in Feet	Well PVC Diameter		1 Volume in Gallons	Minimum Purge Volumes	Volume to Purge in Gallons
	2-inch	4-inch		3	
4.31	~~0.163~~	0.653			2.5

TIME	VOLUME PURGED	pH	SPECIFIC CONDUCTIVITY	TEMP IN °C	DISOLVED OXYGEN	TURBIDITY	COMMENTS
1209	0.5 gal	6.61	0.74	19.8	N/A	N/A	H2O clear
1211	1.0 gal	6.65	0.75	18.1			very strong
1215	2.5 gal	6.76	0.76	17.2			product odor.
							SHEEN.

WELL PURGE RECORD

JOB NAME: Conoco Mini Mart	DATE: 10-01-08 TIME: 0830
Chama, NM	
JOB #: 3116075	SMA Representative: L. Lamone

MONITORING WELL: 9
SAMPLING METHOD: USEPA SW846
FIELD CONDITIONS: Clear / Cool

DECONTAMINATION METHOD: SINGLE USE BAILER, FIELD EQUIPMENT: ALCANOX WASH, TRIPLE DI WATER RINSE

Total Depth of well: 12.96 feet
Depth to water before purging 7.72 feet

Height of Water Column in Feet	Well PVC Diameter		1 Volume in Gallons	Minimum Purge Volumes	Volume to Purge in Gallons
	2-inch	4-inch		3	
5.24	0.163	0.653			3.0

TIME	VOLUME PURGED	pH	SPECIFIC CONDUCTIVITY	TEMP IN C	DISOLVED OXYGEN	TURBIDITY	COMMENTS
0850	0.5 gal	6.76	.58	14.9	N/A	N/A	H2O has Slight sheen
0852	1.0 gal	6.68	0.58	14.4			No odor
0855	2.0 gal	6.71	0.61	14.0			
0857	3.0 gal	6.77	0.63	13.6			
0900	3.5 gal	6.75	0.60	13.7			

WELL PURGE RECORD

JOB NAME: Conoco Mini Mart	DATE: 10-01-08 TIME: 0914
Chama, NM	
JOB #: 3116075	SMA Representative: L. Lamone

MONITORING WELL: 10
SAMPLING METHOD: USEPA SW846
FIELD CONDITIONS: Clear / cool

DECONTAMINATION METHOD: SINGLE USE BAILER, FIELD EQUIPMENT: ALCANOX WASH, TRIPLE DI WATER RINSE

Total Depth of well: 13.90 feet
Depth to water before purging 7.06 feet

Height of Water Column in Feet	Well PVC Diameter		1 Volume in Gallons	Minimum Purge Volumes	Volume to Purge in Gallons
	2-inch	4-inch		3	
6.34	0.163	0.653			320

TIME	VOLUME PURGED	pH	SPECIFIC CONDUCTIVITY	TEMP IN C	DISOLVED OXYGEN	TURBIDITY	COMMENTS
0924	05 gal	6.52	0.59	8.4	N/A	N/A	H20 ... [redacted] see
0926	1.0 gal	6.43	0.57	8.7			sediments.
0928	20 gal.	6.44	0.57	8.8			Dark brown.
0930	3.25 gal	6.48	0.59	7.9			

WELL PURGE RECORD

JOB NAME: Conoco Mini Mart	DATE: 10-01-08 TIME: 1129
CHAMA, NM	
JOB #: 3116075	SMA Representative: L. LAMONS

MONITORING WELL: 11
SAMPLING METHOD: USEPA SW846
FIELD CONDITIONS: Clear / WARM

DECONTAMINATION METHOD: SINGLE USE BAILER, FIELD EQUIPMENT: ALCANOX WASH, TRIPLE DI WATER RINSE

Total Depth of well: 11.30 feet
Depth to water before purging 7.31 feet

Height of Water Column in Feet	Well PVC Diameter		1 Volume in Gallons	Minimum Purge Volumes	Volume to Purge in Gallons
	2-inch	4-inch		3	
3.99	0.163	0.653			30

TIME	VOLUME PURGED	pH	SPECIFIC CONDUCTIVITY	TEMP IN °F	DISOLVED OXYGEN	TURBIDITY	COMMENTS
1136	0.5 gal	6.57	0.92	17.7	N/A	N/A	
1139	1.0 gal.	6.57	1.05	15.8			H2O "milky gray" product odor
1141	2.0 gal.	6.63	1.08	15.2			slight sheen
1145	3.0 gal.	6.68	1.15	15.0			

WELL PURGE RECORD

JOB NAME: Conoco Mini Mart	DATE: 10-01-08 TIME: 1051
CHAMA, NM	
JOB #: 3116075	SMA Representative: L. LAMONS

MONITORING WELL: 12
SAMPLING METHOD: USEPA SW846
FIELD CONDITIONS: Clear / WARM

DECONTAMINATION METHOD: SINGLE USE BAILER, FIELD EQUIPMENT: ALCANOX WASH, TRIPLE DI WATER RINSE

Total Depth of well: 12.95 feet
Depth to water before purging 7.81 feet

Height of Water Column in Feet	Well PVC Diameter		1 Volume in Gallons	Minimum Purge Volumes	Volume to Purge in Gallons
	2-inch	4-inch		3	
5.14	0.163	0.653			3.0

TIME	VOLUME PURGED	pH	SPECIFIC CONDUCTIVITY	TEMP IN °C	DISOLVED OXYGEN	TURBIDITY	COMMENTS
1104	0.5 gal	6.52	1.02	18.7	N/A	N/A	
1106	1.0 gal.	6.50	1.01	16.7			H2O brown "rust" color
1108	2.0 gal	6.51	0.98	16.0			
1111	3.0 gal	6.54	0.95	15.7			slight sheen
		N					slight odor

WELL PURGE RECORD

JOB NAME: Conoco Mini Mart	DATE: 10-01-08 TIME: 1015
CHAMA, NM	
JOB #: 3116075	SMA Representative: L. LAMONE

MONITORING WELL: 13
SAMPLING METHOD: USEPA SW846
FIELD CONDITIONS: clear / warm

DECONTAMINATION METHOD: SINGLE USE BAILER, FIELD EQUIPMENT: ALCANOX WASH, TRIPLE DI WATER RINSE

Total Depth of well: 13.69 feet
Depth to water before purging 7.69 feet

Height of Water Column in Feet	Well PVC Diameter		1 Volume in Gallons	Minimum Purge Volumes	Volume to Purge in Gallons
	2-inch	4-inch		3	
6	0.163	0.653			3

TIME	VOLUME PURGED	PH	SPECIFIC CONDUCTIVITY	TEMP IN °C	DISOLVED OXYGEN	TURBIDITY	COMMENTS
1025	0.5 gal	6.79	0.29	17.8	N/A	N/A	
1029	1.0 gal	6.51	0.71	16.8			H2O black
1031	2.0 gal.	6.58	0.68	16.5			Odor of swamp?
1034	3.0 gal	6.69	0.68	16.3			No sheen ...
						H2O is gray	
						giving it a black color in bucket	

Appendix 3

Laboratory Results

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, October 16, 2008

Tami Ross
Souder, Miller and Associates
612 E Murray Dr.
Farmington, NM 87401

TEL: (505) 325-5667
FAX (505) 327-1496

RE: Conoco Mini Mart

Order No.: 0810047

Dear Tami Ross:

Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 10/2/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

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

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Oct-08*

CLIENT:	Souder, Miller and Associates	**Client Sample ID:**	MW-9
Lab Order:	0810047	**Collection Date:**	10/1/2008 9:00:00 AM
Project:	Conoco Mini Mart	**Date Received:**	10/2/2008
Lab ID:	0810047-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	10/14/2008 11:08:29 PM
Benzene	11	1.0		µg/L	1	10/14/2008 11:08:29 PM
Toluene	7.5	1.0		µg/L	1	10/14/2008 11:08:29 PM
Ethylbenzene	58	1.0		µg/L	1	10/14/2008 11:08:29 PM
Xylenes, Total	61	2.0		µg/L	1	10/14/2008 11:08:29 PM
Surr: 4-Bromofluorobenzene	127	65.9-130		%REC	1	10/14/2008 11:08:29 PM
EPA METHOD 8310: PAHS						Analyst: **DMF**
Naphthalene	ND	10		µg/L	1	10/10/2008 5:19:34 AM
1-Methylnaphthalene	ND	10		µg/L	1	10/10/2008 5:19:34 AM
2-Methylnaphthalene	ND	10		µg/L	1	10/10/2008 5:19:34 AM
Acenaphthylene	ND	13		µg/L	1	10/10/2008 5:19:34 AM
Acenaphthene	ND	25		µg/L	1	10/10/2008 5:19:34 AM
Fluorene	ND	4.0		µg/L	1	10/10/2008 5:19:34 AM
Phenanthrene	ND	3.0		µg/L	1	10/10/2008 5:19:34 AM
Anthracene	ND	3.0		µg/L	1	10/10/2008 5:19:34 AM
Fluoranthene	ND	1.5		µg/L	1	10/10/2008 5:19:34 AM
Pyrene	ND	1.5		µg/L	1	10/10/2008 5:19:34 AM
Benz(a)anthracene	ND	0.35		µg/L	1	10/10/2008 5:19:34 AM
Chrysene	ND	1.0		µg/L	1	10/10/2008 5:19:34 AM
Benzo(b)fluoranthene	ND	0.50		µg/L	1	10/10/2008 5:19:34 AM
Benzo(k)fluoranthene	ND	0.35		µg/L	1	10/10/2008 5:19:34 AM
Benzo(a)pyrene	ND	0.35		µg/L	1	10/10/2008 5:19:34 AM
Dibenz(a,h)anthracene	ND	0.35		µg/L	1	10/10/2008 5:19:34 AM
Benzo(g,h,i)perylene	ND	0.40		µg/L	1	10/10/2008 5:19:34 AM
Indeno(1,2,3-cd)pyrene	ND	0.40		µg/L	1	10/10/2008 5:19:34 AM
Surr: Benzo(e)pyrene	66.5	44.8-104		%REC	1	10/10/2008 5:19:34 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Oct-08*

CLIENT:	Souder, Miller and Associates	**Client Sample ID:**	MW-10
Lab Order:	0810047	**Collection Date:**	10/1/2008 9:30:00 AM
Project:	Conoco Mini Mart	**Date Received:**	10/2/2008
Lab ID:	0810047-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	10/14/2008 5:34:06 PM
Benzene	ND	1.0		µg/L	1	10/14/2008 5:34:06 PM
Toluene	ND	1.0		µg/L	1	10/14/2008 5:34:06 PM
Ethylbenzene	ND	1.0		µg/L	1	10/14/2008 5:34:06 PM
Xylenes, Total	ND	2.0		µg/L	1	10/14/2008 5:34:06 PM
Surr: 4-Bromofluorobenzene	96.6	65.9-130		%REC	1	10/14/2008 5:34:06 PM
EPA METHOD 8310: PAHS						Analyst: **DMF**
Naphthalene	ND	2.2		µg/L	1	10/10/2008 5:50:45 AM
1-Methylnaphthalene	ND	2.2		µg/L	1	10/10/2008 5:50:45 AM
2-Methylnaphthalene	ND	2.2		µg/L	1	10/10/2008 5:50:45 AM
Acenaphthylene	ND	2.8		µg/L	1	10/10/2008 5:50:45 AM
Acenaphthene	ND	5.6		µg/L	1	10/10/2008 5:50:45 AM
Fluorene	ND	0.89		µg/L	1	10/10/2008 5:50:45 AM
Phenanthrene	ND	0.67		µg/L	1	10/10/2008 5:50:45 AM
Anthracene	ND	0.67		µg/L	1	10/10/2008 5:50:45 AM
Fluoranthene	ND	0.33		µg/L	1	10/10/2008 5:50:45 AM
Pyrene	ND	0.33		µg/L	1	10/10/2008 5:50:45 AM
Benz(a)anthracene	ND	0.078		µg/L	1	10/10/2008 5:50:45 AM
Chrysene	ND	0.22		µg/L	1	10/10/2008 5:50:45 AM
Benzo(b)fluoranthene	ND	0.11		µg/L	1	10/10/2008 5:50:45 AM
Benzo(k)fluoranthene	ND	0.078		µg/L	1	10/10/2008 5:50:45 AM
Benzo(a)pyrene	ND	0.078		µg/L	1	10/10/2008 5:50:45 AM
Dibenz(a,h)anthracene	ND	0.078		µg/L	1	10/10/2008 5:50:45 AM
Benzo(g,h,i)perylene	ND	0.089		µg/L	1	10/10/2008 5:50:45 AM
Indeno(1,2,3-cd)pyrene	ND	0.089		µg/L	1	10/10/2008 5:50:45 AM
Surr: Benzo(e)pyrene	64.6	44.8-104		%REC	1	10/10/2008 5:50:45 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Oct-08*

CLIENT:	Souder, Miller and Associates	**Client Sample ID:**	MW-6
Lab Order:	0810047	**Collection Date:**	10/1/2008 10:00:00 AM
Project:	Conoco Mini Mart	**Date Received:**	10/2/2008
Lab ID:	0810047-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	10/14/2008 11:38:53 PM
Benzene	ND	1.0		µg/L	1	10/14/2008 11:38:53 PM
Toluene	ND	1.0		µg/L	1	10/14/2008 11:38:53 PM
Ethylbenzene	ND	1.0		µg/L	1	10/14/2008 11:38:53 PM
Xylenes, Total	ND	2.0		µg/L	1	10/14/2008 11:38:53 PM
Surr: 4-Bromofluorobenzene	106	65.9-130		%REC	1	10/14/2008 11:38:53 PM
EPA METHOD 8310: PAHS						Analyst: **DMF**
Naphthalene	ND	2.2		µg/L	1	10/10/2008 6:22:00 AM
1-Methylnaphthalene	ND	2.2		µg/L	1	10/10/2008 6:22:00 AM
2-Methylnaphthalene	ND	2.2		µg/L	1	10/10/2008 6:22:00 AM
Acenaphthylene	ND	2.8		µg/L	1	10/10/2008 6:22:00 AM
Acenaphthene	ND	5.6		µg/L	1	10/10/2008 6:22:00 AM
Fluorene	ND	0.89		µg/L	1	10/10/2008 6:22:00 AM
Phenanthrene	ND	0.67		µg/L	1	10/10/2008 6:22:00 AM
Anthracene	ND	0.67		µg/L	1	10/10/2008 6:22:00 AM
Fluoranthene	ND	0.33		µg/L	1	10/10/2008 6:22:00 AM
Pyrene	ND	0.33		µg/L	1	10/10/2008 6:22:00 AM
Benz(a)anthracene	ND	0.078		µg/L	1	10/10/2008 6:22:00 AM
Chrysene	ND	0.22		µg/L	1	10/10/2008 6:22:00 AM
Benzo(b)fluoranthene	ND	0.11		µg/L	1	10/10/2008 6:22:00 AM
Benzo(k)fluoranthene	ND	0.078		µg/L	1	10/10/2008 6:22:00 AM
Benzo(a)pyrene	ND	0.078		µg/L	1	10/10/2008 6:22:00 AM
Dibenz(a,h)anthracene	ND	0.078		µg/L	1	10/10/2008 6:22:00 AM
Benzo(g,h,i)perylene	ND	0.089		µg/L	1	10/10/2008 6:22:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.089		µg/L	1	10/10/2008 6:22:00 AM
Surr: Benzo(e)pyrene	61.4	44.8-104		%REC	1	10/10/2008 6:22:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Oct-08*

CLIENT:	Souder, Miller and Associates	**Client Sample ID:**	MW-13
Lab Order:	0810047	**Collection Date:**	10/1/2008 10:34:00 AM
Project:	Conoco Mini Mart	**Date Received:**	10/2/2008
Lab ID:	0810047-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	10/15/2008 12:09:18 AM
Benzene	1.2	1.0		µg/L	1	10/15/2008 12:09:18 AM
Toluene	ND	1.0		µg/L	1	10/15/2008 12:09:18 AM
Ethylbenzene	21	1.0		µg/L	1	10/15/2008 12:09:18 AM
Xylenes, Total	ND	2.0		µg/L	1	10/15/2008 12:09:18 AM
Surr: 4-Bromofluorobenzene	119	65.9-130		%REC	1	10/15/2008 12:09:18 AM
EPA METHOD 8310: PAHS						Analyst: **DMF**
Naphthalene	ND	2.2		µg/L	1	10/10/2008 6:53:16 AM
1-Methylnaphthalene	ND	2.2		µg/L	1	10/10/2008 6:53:16 AM
2-Methylnaphthalene	ND	2.2		µg/L	1	10/10/2008 6:53:16 AM
Acenaphthylene	ND	2.8		µg/L	1	10/10/2008 6:53:16 AM
Acenaphthene	ND	5.6		µg/L	1	10/10/2008 6:53:16 AM
Fluorene	ND	0.89		µg/L	1	10/10/2008 6:53:16 AM
Phenanthrene	ND	0.67		µg/L	1	10/10/2008 6:53:16 AM
Anthracene	ND	0.67		µg/L	1	10/10/2008 6:53:16 AM
Fluoranthene	ND	0.33		µg/L	1	10/10/2008 6:53:16 AM
Pyrene	ND	0.33		µg/L	1	10/10/2008 6:53:16 AM
Benz(a)anthracene	ND	0.078		µg/L	1	10/10/2008 6:53:16 AM
Chrysene	ND	0.22		µg/L	1	10/10/2008 6:53:16 AM
Benzo(b)fluoranthene	ND	0.11		µg/L	1	10/10/2008 6:53:16 AM
Benzo(k)fluoranthene	ND	0.078		µg/L	1	10/10/2008 6:53:16 AM
Benzo(a)pyrene	ND	0.078		µg/L	1	10/10/2008 6:53:16 AM
Dibenz(a,h)anthracene	ND	0.078		µg/L	1	10/10/2008 6:53:16 AM
Benzo(g,h,i)perylene	ND	0.089		µg/L	1	10/10/2008 6:53:16 AM
Indeno(1,2,3-cd)pyrene	ND	0.089		µg/L	1	10/10/2008 6:53:16 AM
Surr: Benzo(e)pyrene	73.8	44.8-104		%REC	1	10/10/2008 6:53:16 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Oct-08*

CLIENT:	Souder, Miller and Associates	**Client Sample ID:**	MW-12
Lab Order:	0810047	**Collection Date:**	10/1/2008 11:11:00 AM
Project:	Conoco Mini Mart	**Date Received:**	10/2/2008
Lab ID:	0810047-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	10/15/2008 1:31:32 PM
Benzene	ND	1.0		µg/L	1	10/15/2008 1:31:32 PM
Toluene	ND	1.0		µg/L	1	10/15/2008 1:31:32 PM
Ethylbenzene	12	1.0		µg/L	1	10/15/2008 1:31:32 PM
Xylenes, Total	32	2.0		µg/L	1	10/15/2008 1:31:32 PM
Surr: 4-Bromofluorobenzene	117	65.9-130		%REC	1	10/15/2008 1:31:32 PM
EPA METHOD 8310: PAHS						Analyst: **DMF**
Naphthalene	ND	10		µg/L	1	10/10/2008 7:24:33 AM
1-Methylnaphthalene	ND	10		µg/L	1	10/10/2008 7:24:33 AM
2-Methylnaphthalene	ND	10		µg/L	1	10/10/2008 7:24:33 AM
Acenaphthylene	ND	13		µg/L	1	10/10/2008 7:24:33 AM
Acenaphthene	ND	25		µg/L	1	10/10/2008 7:24:33 AM
Fluorene	ND	4.0		µg/L	1	10/10/2008 7:24:33 AM
Phenanthrene	ND	3.0		µg/L	1	10/10/2008 7:24:33 AM
Anthracene	ND	3.0		µg/L	1	10/10/2008 7:24:33 AM
Fluoranthene	ND	1.5		µg/L	1	10/10/2008 7:24:33 AM
Pyrene	ND	1.5		µg/L	1	10/10/2008 7:24:33 AM
Benz(a)anthracene	ND	0.35		µg/L	1	10/10/2008 7:24:33 AM
Chrysene	ND	1.0		µg/L	1	10/10/2008 7:24:33 AM
Benzo(b)fluoranthene	ND	0.50		µg/L	1	10/10/2008 7:24:33 AM
Benzo(k)fluoranthene	ND	0.35		µg/L	1	10/10/2008 7:24:33 AM
Benzo(a)pyrene	ND	0.35		µg/L	1	10/10/2008 7:24:33 AM
Dibenz(a,h)anthracene	ND	0.35		µg/L	1	10/10/2008 7:24:33 AM
Benzo(g,h,i)perylene	ND	0.40		µg/L	1	10/10/2008 7:24:33 AM
Indeno(1,2,3-cd)pyrene	ND	0.40		µg/L	1	10/10/2008 7:24:33 AM
Surr: Benzo(e)pyrene	56.4	44.8-104		%REC	1	10/10/2008 7:24:33 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Oct-08*

CLIENT:	Souder, Miller and Associates	**Client Sample ID:**	MW-11
Lab Order:	0810047	**Collection Date:**	10/1/2008 11:45:00 AM
Project:	Conoco Mini Mart	**Date Received:**	10/2/2008
Lab ID:	0810047-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	10/15/2008 2:01:50 PM
Benzene	9.2	1.0		µg/L	1	10/15/2008 2:01:50 PM
Toluene	ND	1.0		µg/L	1	10/15/2008 2:01:50 PM
Ethylbenzene	47	1.0		µg/L	1	10/15/2008 2:01:50 PM
Xylenes, Total	5.2	2.0		µg/L	1	10/15/2008 2:01:50 PM
Surr: 4-Bromofluorobenzene	149	65.9-130	S	%REC	1	10/15/2008 2:01:50 PM
EPA METHOD 8310: PAHS						Analyst: **DMF**
Naphthalene	ND	2.2		µg/L	1	10/10/2008 7:55:51 AM
1-Methylnaphthalene	ND	2.2		µg/L	1	10/10/2008 7:55:51 AM
2-Methylnaphthalene	ND	2.2		µg/L	1	10/10/2008 7:55:51 AM
Acenaphthylene	ND	2.8		µg/L	1	10/10/2008 7:55:51 AM
Acenaphthene	ND	5.6		µg/L	1	10/10/2008 7:55:51 AM
Fluorene	ND	0.89		µg/L	1	10/10/2008 7:55:51 AM
Phenanthrene	ND	0.67		µg/L	1	10/10/2008 7:55:51 AM
Anthracene	ND	0.67		µg/L	1	10/10/2008 7:55:51 AM
Fluoranthene	ND	0.33		µg/L	1	10/10/2008 7:55:51 AM
Pyrene	ND	0.33		µg/L	1	10/10/2008 7:55:51 AM
Benz(a)anthracene	ND	0.078		µg/L	1	10/10/2008 7:55:51 AM
Chrysene	ND	0.22		µg/L	1	10/10/2008 7:55:51 AM
Benzo(b)fluoranthene	ND	0.11		µg/L	1	10/10/2008 7:55:51 AM
Benzo(k)fluoranthene	ND	0.078		µg/L	1	10/10/2008 7:55:51 AM
Benzo(a)pyrene	ND	0.078		µg/L	1	10/10/2008 7:55:51 AM
Dibenz(a,h)anthracene	ND	0.078		µg/L	1	10/10/2008 7:55:51 AM
Benzo(g,h,i)perylene	ND	0.089		µg/L	1	10/10/2008 7:55:51 AM
Indeno(1,2,3-cd)pyrene	ND	0.089		µg/L	1	10/10/2008 7:55:51 AM
Surr: Benzo(e)pyrene	52.0	44.8-104		%REC	1	10/10/2008 7:55:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *16-Oct-08*

CLIENT:	Souder, Miller and Associates	**Client Sample ID:**	MW-7
Lab Order:	0810047	**Collection Date:**	10/1/2008 12:15:00 PM
Project:	Conoco Mini Mart	**Date Received:**	10/2/2008
Lab ID:	0810047-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	10	10/15/2008 1:48:34 AM
Benzene	44	10		µg/L	10	10/15/2008 1:48:34 AM
Toluene	15	10		µg/L	10	10/15/2008 1:48:34 AM
Ethylbenzene	590	10		µg/L	10	10/15/2008 1:48:34 AM
Xylenes, Total	1500	20		µg/L	10	10/15/2008 1:48:34 AM
Surr: 4-Bromofluorobenzene	115	65.9-130		%REC	10	10/15/2008 1:48:34 AM
EPA METHOD 8310: PAHS						Analyst: **DMF**
Naphthalene	180	10		µg/L	1	10/10/2008 8:27:07 AM
1-Methylnaphthalene	48	10		µg/L	1	10/10/2008 8:27:07 AM
2-Methylnaphthalene	120	10		µg/L	1	10/10/2008 8:27:07 AM
Acenaphthylene	ND	13		µg/L	1	10/10/2008 8:27:07 AM
Acenaphthene	ND	25		µg/L	1	10/10/2008 8:27:07 AM
Fluorene	ND	4.0		µg/L	1	10/10/2008 8:27:07 AM
Phenanthrene	ND	3.0		µg/L	1	10/10/2008 8:27:07 AM
Anthracene	ND	3.0		µg/L	1	10/10/2008 8:27:07 AM
Fluoranthene	ND	1.5		µg/L	1	10/10/2008 8:27:07 AM
Pyrene	ND	1.5		µg/L	1	10/10/2008 8:27:07 AM
Benz(a)anthracene	ND	0.35		µg/L	1	10/10/2008 8:27:07 AM
Chrysene	ND	1.0		µg/L	1	10/10/2008 8:27:07 AM
Benzo(b)fluoranthene	ND	0.50		µg/L	1	10/10/2008 8:27:07 AM
Benzo(k)fluoranthene	ND	0.35		µg/L	1	10/10/2008 8:27:07 AM
Benzo(a)pyrene	ND	0.35		µg/L	1	10/10/2008 8:27:07 AM
Dibenz(a,h)anthracene	ND	0.35		µg/L	1	10/10/2008 8:27:07 AM
Benzo(g,h,i)perylene	ND	0.40		µg/L	1	10/10/2008 8:27:07 AM
Indeno(1,2,3-cd)pyrene	ND	0.40		µg/L	1	10/10/2008 8:27:07 AM
Surr: Benzo(e)pyrene	74.2	44.8-104		%REC	1	10/10/2008 8:27:07 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Souder, Miller and Associates
Project: Conoco Mini Mart **Work Order:** 0810047

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 0810047-02A MSD		*MSD*			Batch ID:	**R30695**	Analysis Date:		10/14/2008 7:35:54 PM
Methyl tert-butyl ether (MTBE)	28.99	µg/L	2.5	145	51.2	138	3.86	28	S
Benzene	19.81	µg/L	1.0	99.1	85.9	113	0.312	27	
Toluene	20.14	µg/L	1.0	101	86.4	113	1.94	19	
Ethylbenzene	20.12	µg/L	1.0	101	83.5	118	0.397	10	
Xylenes, Total	60.86	µg/L	2.0	101	83.4	122	0.0296	13	
Sample ID: B		*MBLK*			Batch ID:	**R30695**	Analysis Date:		10/14/2008 8:56:44 AM
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5						
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R30695**	Analysis Date:		10/14/2008 8:36:52 PM
Methyl tert-butyl ether (MTBE)	29.03	µg/L	2.5	145	51.2	138			S
Benzene	19.75	µg/L	1.0	98.8	85.9	113			
Toluene	20.32	µg/L	1.0	102	86.4	113			
Ethylbenzene	20.01	µg/L	1.0	100	83.5	118			
Xylenes, Total	60.85	µg/L	2.0	101	83.4	122			
Sample ID: 0810047-02A MS		*MS*			Batch ID:	**R30695**	Analysis Date:		10/14/2008 7:05:27 PM
Methyl tert-butyl ether (MTBE)	27.90	µg/L	2.5	139	51.2	138			S
Benzene	19.87	µg/L	1.0	99.4	85.9	113			
Toluene	20.53	µg/L	1.0	103	86.4	113			
Ethylbenzene	20.20	µg/L	1.0	101	83.5	118			
Xylenes, Total	60.88	µg/L	2.0	101	83.4	122			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Souder, Miller and Associates
Project: Conoco Mini Mart **Work Order:** 0810047

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: MB-17315		*MBLK*			Batch ID: **17315**		Analysis Date:	10/10/2008 3:14:35 AM	
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	2.0						
2-Methylnaphthalene	ND	µg/L	2.0						
Acenaphthylene	ND	µg/L	2.5						
Acenaphthene	ND	µg/L	5.0						
Fluorene	ND	µg/L	0.80						
Phenanthrene	ND	µg/L	0.60						
Anthracene	ND	µg/L	0.60						
Fluoranthene	ND	µg/L	0.30						
Pyrene	ND	µg/L	0.30						
Benz(a)anthracene	ND	µg/L	0.070						
Chrysene	ND	µg/L	0.20						
Benzo(b)fluoranthene	ND	µg/L	0.10						
Benzo(k)fluoranthene	ND	µg/L	0.070						
Benzo(a)pyrene	ND	µg/L	0.070						
Dibenz(a,h)anthracene	ND	µg/L	0.070						
Benzo(g,h,i)perylene	ND	µg/L	0.080						
Indeno(1,2,3-cd)pyrene	ND	µg/L	0.080						
Sample ID: LCS-17315		*LCS*			Batch ID: **17315**		Analysis Date:	10/10/2008 3:45:48 AM	
Naphthalene	60.02	µg/L	2.0	75.0	31.5	90.7			
1-Methylnaphthalene	59.73	µg/L	2.0	74.5	32.5	93.3			
2-Methylnaphthalene	61.28	µg/L	2.0	76.6	32.8	89.6			
Acenaphthylene	59.39	µg/L	2.5	74.1	37.8	92.4			
Acenaphthene	62.10	µg/L	5.0	77.6	38.6	93.9			
Fluorene	5.780	µg/L	0.80	72.1	38	95.5			
Phenanthrene	2.780	µg/L	0.60	69.2	32.9	107			
Anthracene	2.870	µg/L	0.60	71.4	35.2	98.3			
Fluoranthene	5.870	µg/L	0.30	73.2	36.4	104			
Pyrene	5.200	µg/L	0.30	64.8	37.1	102			
Benz(a)anthracene	0.6100	µg/L	0.070	76.1	33.7	101			
Chrysene	2.980	µg/L	0.20	74.1	35.2	96.1			
Benzo(b)fluoranthene	0.8100	µg/L	0.10	80.8	33.6	94.2			
Benzo(k)fluoranthene	0.3800	µg/L	0.070	76.0	25.4	110			
Benzo(a)pyrene	0.3800	µg/L	0.070	75.7	26.9	102			
Dibenz(a,h)anthracene	0.6900	µg/L	0.070	68.9	40.7	92.1			
Benzo(g,h,i)perylene	0.7300	µg/L	0.080	73.0	24.3	109			
Indeno(1,2,3-cd)pyrene	1.370	µg/L	0.080	68.4	42.6	99.9			
Sample ID: LCSD-17315		*LCSD*			Batch ID: **17315**		Analysis Date:	10/10/2008 4:48:18 AM	
Naphthalene	38.36	µg/L	2.0	48.0	31.5	90.7	44.0	32.1	R
1-Methylnaphthalene	40.52	µg/L	2.0	50.5	32.5	93.3	38.3	32.7	R
2-Methylnaphthalene	40.59	µg/L	2.0	50.7	32.8	89.6	40.6	34	R
Acenaphthylene	39.92	µg/L	2.5	49.8	37.8	92.4	39.2	38.8	R
Acenaphthene	42.64	µg/L	5.0	53.3	38.6	93.9	37.2	38.6	
Fluorene	4.420	µg/L	0.80	55.1	38	95.5	26.7	29.3	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Souder, Miller and Associates
Project: Conoco Mini Mart **Work Order:** 0810047

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: LCSD-17315		*LCSD*			Batch ID:	**17315**	Analysis Date:	10/10/2008 4:48:18 AM	
Phenanthrene	2.000	µg/L	0.60	49.8	32.9	107	32.6	25	R
Anthracene	1.980	µg/L	0.60	49.3	35.2	98.3	36.7	23.9	R
Fluoranthene	3.950	µg/L	0.30	49.3	36.4	104	39.1	15.7	R
Pyrene	3.240	µg/L	0.30	40.4	37.1	102	46.4	15.3	R
Benz(a)anthracene	0.4200	µg/L	0.070	52.4	33.7	101	36.9	19	R
Chrysene	2.110	µg/L	0.20	52.5	35.2	96.1	34.2	16.6	R
Benzo(b)fluoranthene	0.6200	µg/L	0.10	61.9	33.6	94.2	26.6	21.7	R
Benzo(k)fluoranthene	0.2600	µg/L	0.070	52.0	25.4	110	37.5	19.4	R
Benzo(a)pyrene	0.2600	µg/L	0.070	51.8	26.9	102	37.5	16.7	R
Dibenz(a,h)anthracene	0.4800	µg/L	0.070	47.9	40.7	92.1	35.9	17.3	R
Benzo(g,h,i)perylene	0.5000	µg/L	0.080	50.0	24.3	109	37.4	18	R
Indeno(1,2,3-cd)pyrene	0.9800	µg/L	0.080	48.9	42.6	99.9	33.2	17.7	R

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SMA-FARM | Date Received: ~~10/3/2008~~ 10/2/08 AS

Work Order Number 0810047 | Received by: ARS

Checklist completed by: [signature] Signature | ~~10/3/08~~ 10/2/08 Date | Sample ID labels checked by: AS 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?	6°	<6° C *Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: SMA

Address: 612 E. Murray
Farmington, NM

Phone #: (505) & 325-5667

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Conoco Mini Mart

Project #: 316075

Project Manager: Tami Ross

Sampler: L.L.

On Ice: ☒ Yes ☐ No

Sample Temperature: 6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0810047	BTEX + MTBE + TMB (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
10-01-08	0900	MW-9	9 6ss/4	HCl/Cool	1	✓						✓									
	0930	MW-10			2	✓						✓									
	1000	MW-6			3	✓						✓									
	1034	MW-13			4	✓						✓									
	1111	MW-12			5	✓						✓									
	1145	MW-11			6	✓						✓									
	1215	MW-7			7	✓						✓									

Date	Time	Relinquished by:	Received by:
10/02/08	0815		
			16:30 10/2/08

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.