1R - 299

ANNUAL MONITORING REPORT

03/27/2008



25 March 2008

RECEIVED 2008 MAR 27 PM 1 08

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

Re: 2007 Annual Groundwater Monitoring Report Shell Oil Products US - Penrose 'A' (Winnie Kennan Ranch) Case Number: 1R299

Dear Mr. Von Gonten:

The attached report documents the annual groundwater monitoring activities conducted at the above-referenced site. Analytical and field results indicate the light non-aqueous phase liquids (LNAPL) plume appears to have reduced in size during the past year, with analytical reports indicating no detections of benzene, toluene, ethylbenzene and/or total xylenes (BTEX constituents) in samples collected from groundwater monitoring wells MW-2, MW-3, MW-4 and MW-5.

Should analytical results for samples collected during 2008 continue to indicate non-detectable concentrations of constituents of concern at or above the New Mexico Water Quality Control Commission (NMWQCC) standards, it is recommended that groundwater monitoring wells MW-2 through MW-5 be plugged and abandoned. If the wells can not be plugged and abandoned, it is recommended that the sampling schedule be terminated until such time that free-phase liquid hydrocarbons are no longer present in groundwater monitoring well MW-1.

Should you have any questions or concerns, please feel free to contact me at (602) 648-2402 or via e-mail at <u>iain_olness@urscorp.com</u>. All official correspondence should be submitted to Mr. Ken Springer with Shell Oil Products US at the following address:

Mr. Ken Springer, Staff Project Manager Shell Oil Products US P. O. Box 1087 Huffman, TX 77336 (281) 324-5921

Kenneth.Springer@shell.com

Sincerely,

URS Corporation

Iain Olness, P.G. Senior Geologist

Attachments: 2007 Annual Groundwater Monitoring Report

cc: Ken Springer, SOPUS – Houston Larry Johnson, NMOCD – Hobbs

URS Corporation 7720 North 16th Street, Suite 100 Phoenix, AZ 85020 Tel: 602.371.1100 Fax: 602.371.1615



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2007 ANNUAL GROUNDWATER MONITORING REPORT

PENROSE 'A' LEASE (WINNIE KENNAN RANCH) CASE NUMBER: 1R299 INCIDENT NUMBER: 300108

SW¼ SE¼, SEC. 3, T23S, R37E LEA COUNTY, NEW MEXICO

Prepared for: SHELL OIL PRODUCTS US

URS Job No. 49194413 14 March 2008

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FIGURE 12 BTEX Concentrations for Groundwater Monitoring Well MW-5, Shell Oil Products US Kennan Penrose "A" Lease, Lea County, New Mexico, from 07-26-04 through 12-31-07.

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1.0 INTRODUCTION

This *Annual Report* has been prepared to document the results of groundwater monitoring, sampling and remediation activities conducted during 2007 at the Penrose 'A' Lease (Winnie Kennan Ranch) located approximately seven (7) miles southeast of Eunice, New Mexico, off New Mexico State Highway 18, in Lea County, New Mexico (reference Figures 1 and 2). A review of the New Mexico Office of the State Engineer website and the United States Geological Survey (USGS) database revealed the presence of ten (10) water supply wells within a one-mile radius of the point of release (reference Figure 2 and Table 1). No wells were found to be located within a 1,000-foot radius of the point of release, with the nearest wells being located approximately 1,800 feet northeast (i.e., upgradient) of the point of release.

This report complies with the New Mexico Oil Conservation Division (NMOCD) requirements and addresses all activities performed during the annual period of 2007. Semi-annual groundwater monitoring and sampling events were performed to further evaluate the nature and extent of petroleum hydrocarbon constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAH) in groundwater. The sampling events were performed on March 28, and November 2, 2007 by H₂A Environmental, Ltd., under the direction of URS Corporation. In addition, maintenance of the onsite remediation and light non-aqueous phase liquid (LNAPL) abatement activities were performed monthly throughout 2007.

2.0 <u>CHRONOLOGY OF EVENTS</u>

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A summary of significant events and activities performed at the site is presented below.

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March 2000	Shell and Enercon perform a site walk of the property in an area of historic crude oil releases of an unknown amount.
October to November 2000	Enercon was onsite to excavate approximately 10,800 cubic yards of soil, which were transported and landfarmed offsite. The site was excavated to a depth of 40 feet below ground surface (bgs) with TPH exceeding NMOCD standards at that depth. The NMOCD agreed with Shell that for safety purposes further excavation should be halted.
May 2001	Enercon submits the excavation report to the NMOCD.
November 2001	NMOCD requests installation of a soil boring/monitor well in center of excavation to determine amount of remaining hydrocarbon impacts to the soils/groundwater.
January 2002	Enercon is onsite to advance one soil boring within the excavation from a depth of 40 feet bgs to groundwater located at approximately 75 feet bgs. The soil boring was converted to temporary monitor well TMW-1. Soils exceeded NMOCD standards of 1,000 milligrams per kilogram (mg/Kg) TPH. LNAPL in the form of crude oil was measured in TMW-1.
April 2002	Enercon submits <i>Workplan for Soil Remediation and Monitor Well Installation</i> to NMOCD. Workplan includes installation of clay liner over remaining hydrocarbon impacted soils.
May 2002	Enercon submits <i>Report Detailing the Installation of Temporary Monitor Well TMW-1</i> to NMOCD.
April 2004	NMOCD agrees to work plan design and installation of additional monitor wells to delineate site groundwater impacts.
June 2004	Enercon places a 4-foot clay liner above remaining hydrocarbon impacted soils and backfills excavation with soils from surrounding sand dunes. Temporary monitor well TMW-1 is converted to monitor well MW-1.
July 2004	Enercon advances four soil borings to approximately 80-feet bgs and converts soil borings to monitor wells (MW-2 through MW-5). Monthly LNAPL recovery from MW-1 initiated.
November 2004	Enercon submits <i>Phase II Backfilling Activities with Site Groundwater/Soil Characterization</i> to NMOCD.
January 2005	Continued monthly LNAPL recovery from MW-1.
March 2005	Enercon submits 2004 Annual Groundwater Monitoring Report to the NMOCD.
September 2005	Enercon installs one Clean Environments CEE [©] Product Only Pump in monitor well MW-1.

January 2006	Site maintenance and environmental management of property transitioned from Enercon to Conestoga-Rovers and Associates (CRA). Continued monthly LNAPL recovery from MW-1.
April 2006	CRA submits 2005 Annual Groundwater Monitoring Report to Shell Oil Products US (SOPUS) and the NMOCD.
October 10, 2006	Site maintenance and environmental management of property transitioned from CRA to URS Corporation.
January 2007	Continued monthly LNAPL recovery from MW-1.
March 2007	URS Corporation submits 2006 Annual Groundwater Monitoring Report to SOPUS and the NMOCD, recommending the sampling schedule be reduced from quarterly to semi-annual.
March 23, 2007	H ₂ A conducts semi-annual sampling activities.
November 2, 2007	H ₂ A conducts semi-annual sampling activities.
January 2008	Continued monthly LNAPL recovery from MW-1.
March 2008	URS submits 2007 Annual Groundwater Monitoring Report to SOPUS and the NMOCD.

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3.0 2007 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

3.1 FIELD PROCEDURES

Groundwater sampling events were performed on March 28 and November 2, 2007. Monitor well locations and site details are illustrated in Figure 3. Prior to sampling, fluid levels were measured in each well. Wells that did not contain measurable light non-aqueous phase liquids (LNAPL) (less than 0.01 feet) were purged of approximately three (3) well volumes of groundwater or to dryness. After purging, samples were collected from each well with a new disposable Teflon® bailer. The samples were transferred directly from the bailer into laboratory supplied containers. The samples were then placed into coolers and chilled with ice. Purged water collected during each event was stored in several 55-gallon drums located on site.

3.2 GROUNDWATER GAUGING DATA

During 2007, depth to groundwater across the site ranged from 70.3 feet to 73.15 feet below the top of the casing, with an average groundwater gradient of approximately 0.0051ft/ft to the southwest. Groundwater gauging data are summarized in Table 2 and illustrated in Figure 4. These observations are consistent with historical data collected at the site. Average groundwater elevations at the site, adjusted for LNAPL, during the March and November 2007 sampling events were 3,226.55 feet, and 3,226.53 feet above mean sea level, respectively. This data indicates the average depth to groundwater at the site decreased approximately 0.01 feet between December 28, 2006 and November 2, 2007. Groundwater gradient maps for the March and November 2007 sampling events are illustrated on Figures 5 and 6, respectively.

3.3 <u>ANALYTICAL RESULTS</u>

Groundwater samples were submitted to TestAmerica Analytical Testing Corporation (TestAmerica), of Phoenix, Arizona for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX) concentrations via Environmental Protection Agency (EPA) Method SW846-8260B. Groundwater samples were not collected from groundwater monitoring well MW-1 due to the presence of LNAPL on the water column.

During the 2007 reporting period, dissolved-phase concentrations of BTEX were reported as nondetectable (ND) at or above the laboratory SQLs and/or reporting limits (RLs) in all samples.

BTEX analytical results are summarized in Tables 3 and on Figures 9 through 12. Copies of the certified laboratory reports and chain-of-custody documentation are included as Appendix A.

4.0 LNAPL RECOVERY ACTIVITIES

During the 2007 monitoring period, measurable LNAPL in the form of crude oil was present in monitor well MW-1 with an average thickness of 0.27 feet (reference Table 2). Historically, from July 2004 through October 2005, the LNAPL thickness has averaged 1.45 feet in MW-1. This is a decrease of 0.72 feet for 2007. During 2007, LNAPL abatement activities were performed by utilizing a Clean Environments CEE[®] Product Only Pump installed in groundwater monitoring well MW-1 in September 2005 and operated through early November 2007. The product only pump, which is operated by a carbon dioxide cylinder, was shut down in early October 2006 and remained off the rest of 2006 due to transference of the site from CRA to URS Corporation. LNAPL recovery from the onsite remediation system is summarized on Table 2. As of December 31, 2007, an approximate total of 32.3 gallons of LNAPL have been recovered at the site. Of this, approximately 11.5 gallons of LNAPL have been recovered by hand bailing, and 20.8 gallons by the onsite remediation system. Recovered LNAPL is stored in a 55-gallon steel drum within a fiberglass secondary containment adjacent to monitor well MW-1, situated within a poly lined earthen berm.

5.0 <u>SUMMARY OF FINDINGS</u>

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Key findings based on the assessment/remediation activities conducted during 2007 are presented below:

- The groundwater gradient remains relatively constant at approximately 0.0051 ft/ft to the southwest.
- LNAPL was present throughout the year in monitor well MW-1 with an average thickness of 0.27 feet.
- A CEE[©] Product Only Pump was installed in monitor well MW-1 in September 2005 to enhance recovery of LNAPL and has recovered approximately 7.8 gallons since installation.
- BTEX constituents were reported as non-detectable in samples collected from all groundwater monitoring wells during 2007.

6.0 **RECOMMENDATIONS**

Based on field and analytical data for samples collected during the past year and analytical results for samples collected previously from the groundwater monitoring well network the following recommendations are made:

- Maintain the current sampling frequency for groundwater monitoring wells MW-2 through MW-5. Should analytical results indicate contaminant concentrations in groundwater samples collected from groundwater monitoring wells MW-2 through MW-5 remain below NMWQCC standards during the 2008 sampling period, it is recommended that the wells be plugged and abandoned. If the wells can not be plugged and abandoned, it is recommended that the sampling schedule be terminated until such time that free-phase liquid hydrocarbons are no longer present in groundwater monitoring well MW-1.
- 2) Submit the collected samples for quantification of BTEX via EPA Method SW846-8260B.
- 3) Continue semi-monthly monitoring (i.e., twice per month) of the free-product recovery system to ensure the system is operating efficiently and effectively.
- 4) Submit the results of the Annual Sampling Program to the New Mexico Oil Conservation Division by April 1, 2008.





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KENNAN PENROSE "A" 28 MARCH 2007 **GROUNDWATER ELEVATION CONTOUR MAP**

Figure 5

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Figure 6

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					 <1.0 ug/L <2.0 ug/L <2.0 ug/L 	 <3.0 µg/L NA 				
,	F0 ()-			MW-5	Benzene Toluene Ethyl Benzen	Total Xylenes PAH				
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Non-detectable concentrations are illustrated as zero concentrations.

County, New Mexico, from 07-26-04 through 12-31-07.

Concentrations (ug/L)

Non-detectable concentrations are illustrated as zero concentrations.

Non-detectable concentrations are illustrated as zero concentrations.

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SUMMARY OF GROUNDWATER ELEVATION DATA SHELL OIL PRODUCTS US PENROSE "A" LEASE (WINNIE KENNAN RANCH) LEA COUNTY, NEW MEXICO

Well ID TOC ¹ Elevation	Date	Casing Diameter (in)	Depth to LNAPL ² (ft TOC ¹)	Depth to Groundwater (ft TOC ¹)	Groundwater Elevation ³ (ft)	LNAPL ² Thickness (ft)	LNAPL ² Recovery (gallons)	LNAPL ² Cumulative Recovery (gallons)	Type of Recovery
MW-1	26-Jul-04	2	69.94	72.90	3,226.51	2.96	0.50	0.50	Hand Bail
3,296.75	14-Oct-04		70.10	72.26	3,226.43	2.16	0.00	0.50	Hand Bail
1	27-Oct-04		69.99	72.54	3,226.51	2.55	2.00	2.50	Hand Bail
	21-Nov-04		69.98	72.67	3,226.50	2.69	1.50	4.00	Hand Bail
	22-Dec-04		70.01	72.01	3,226.54	2.00	1.50	5.50	Hand Bail
· ·	25-Jan-05		69.89	72.72	3,226.58	2.83	2.00	7.50	Hand Bail
	25-Apr-05		69.91	71.68	3,226.66	1.77	2.00	9.50	Hand Bail
	01-Sep-05		69.91	71.85	3,226.65	1.94	2.00	11.50	System installed
	25-Oct-05		70.08	70.71	3,226.61	0.63	7.00	18.50	Adjusted pump
	28-Feb-06		69.83	72.00	3,226.70.	2.17	NR⁴	- <u></u>	Skimmer Pump
	30-Jun-06		69.88	71.75	3,226.68	1.87	NR ⁴		Skimmer Pump
	03-Oct-06		70.11	71.01	3,226.55	0.90	0.83	19.33	Skimmer Pump
	28-Dec-06			NOT (GAUGED		NO ⁵		None
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	24-Apr-07		70.20	71:25	3,226.45	1.05			
	+28-May-07		70.33	70.45	3,226:41	0.12			
	15-Jun-07		70.30	70.40	3,226.44	0.10	n and the second state of the second se		
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	21-Nov-04					NOT GAL	JGED		
	22-Dec-04	4				NOT GAL	JGED		
	25-Jan-05			73.01	3,226.24	0.00			
-	25-Apr-05			72.92	3,226.33	0.00			
	01-Sep-05			72.91	3,226.34	0.00			
	25-Oct-05			72.97	3,226.28	0.00			
	20-Feb-06			72.93	3,220.30	0.00			
	03 Oct 06			72.90	3,220.27	0.00			
	28-Doc-06			73.02	3 226 17	0.00			
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SUMMARY OF GROUNDWATER ELEVATION DATA SHELL OIL PRODUCTS US PENROSE "A" LEASE (WINNIE KENNAN RANCH) LEA COUNTY, NEW MEXICO

Well ID TOC ¹ Elevation	Date	Casing Diameter (in)	Depth to LNAPL ² (ft TOC ¹)	Depth to Groundwater (ft TOC ¹)	Groundwater Elevation ³ (ft)	LNAPL ² Thickness (ft)	LNAPL ² Recovery (gallons)	LNAPL ² Cumulative Recovery (gallons)	Type of Recovery
MW-3	26-Jul-04	4		71.88	3,227.37	0.00			
3,299.25	14-Oct-04			71.93	3,227.32	0.00			
	27-Oct-04			•	•	NOT GAU	JGED		•
	21-Nov-04					NOT GAU	JGED		
	22-Dec-04					NOT GAU	JGED		
	25-Jan-05			71.90	3,227.35	0.00			
	25-Apr-05			71.80	3,227.45	0.00			
	01-Sep-05			71.78	3,227.47	0.00			
	25-Oct-05			71.82	3,227.43	0.00			
	28-Feb-06			71.80	3,227.45	0.00			
	30-Jun-06			71.83	3,227.42	0.00			
	03-Oct-06			71.87	3,227.38	0.00			
	28-Dec-06			71.99	3,227.26	0.00			
	28-Mar-07	17 B	HILLING ALL SALES	al anna stainn ann a' an tair. Al ann an tairtean ann an tairtean an t					
	24-Apr-07		an ally rough gradients her have grades and all all	71.95	3;227.30	0:00			
	28-May-07		NURBER PORT	72.00	3,227.25	0.00			
	15-Jun-07			71:95	1227.30	##X0.00		 A set of the set of	
	06-Jul-07		oljano prazizio despres Gladente da ordenesia	1914 72.00	3,227-25	0.00	and the second s		
	13-Aug-07	n farming industry and The second se The second se		72.00	3,227.25	0.00			
	17-Sep-07		nini ing <u>ana k</u> apin na sa	72.00	3,227:25	0.00	and the second se		出版和目标是大学中的
	08-Oct-07	 Martinethical Consult Martinethical Consult 		72.00	3,227.25	0.00		aman a series and a series of	
	02-Nov-07		41.11.1 <u></u> 12.14	72.00	3,227.25	0.00			
MW-4	26-Jul-04	4		70.85	3,226.58	0.00			
3,297.43	14-Oct-04			70.90	3,226.53	0.00			
	27-Oct-04					NOT GAU	JGED		
	21-Nov-04					NOT GAU	JGED		
	22-Dec-04					NOT GAU	JGED		
	25-Jan-05			70.87	3,226.56	0.00			
	25-Apr-05			70.80	3,226.63	0.00			
	01-Sep-05			70.79	3,226.64	0.00			
	25-Oct-05			70.80	3,226.63	0.00			
	28-Feb-06			70.80	3,226.63	0.00			
	30-Jun-06			70.79	3;226.64	0.00			
	03-Oct-06			70.86	3,226.57	0.00			
	28-Dec-06	andra Samo di Manidia di	 1	/0.9/	3,226.46		"Millions, trig to be include	 Bobolak (-4.900ako-osta sia	 THE DESIGNED STREET THE ARE DESC.
	28-Mar-07	and the second sec	H confine tille dital Pitteri	555 C	1 Contraction of the second se			 Martin Constraints of Contracts Martin C	
	24-Apr-0/		bitchnikar in Sonie Bellandi, Privari		3,226.43				
	20-IVIAY-U/	Maryares.			3,220.43	0.00,			
	#13-Jun-U/		Her General Manager Constants	******/U.95* 調報			and the second se		
	100-Jul-0/		urifi Google September Street	20.95	3,220,48				
1	IS-Aug-U/		"TERMENT PROFESSION	/1.00	13,220.43 train	0.00	STOLEN ST		
	1/-Sep-0/-	L Hittery		ZD.00	3,220.43			A CARACTER OF A	
	100-UCT-U/	P. Horizon	af dita incrime	70.73	3,220.48	0.00	Watt a manufact with the		
L	=02=Nov_07			/0.95 建油	3,226:48	·····································	duen : classification of the		

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SUMMARY OF GROUNDWATER ELEVATION DATA SHELL OIL PRODUCTS US PENROSE "A" LEASE (WINNIE KENNAN RANCH) LEA COUNTY, NEW MEXICO

Well ID TOC ¹ Elevation	Date	Casing Diameter (in)	Depth to LNAPL ² (ft TOC ¹)	Depth to Groundwater (ft TOC ¹)	Groundwater Elevation ³ (ft)	LNAPL ² Thickness (ft)	LNAPL ² Recovery (gallons)	LNAPL ² Cumulative Recovery (gallons)	Type of Recovery
MW-5	26-Jul-04	4		72.97	3,226.37	0.00			
3,299.34	14-Oct-04			73.03	3,226.31	0.00			
	27-Oct-04					NOT GAL	JGED		
1	21-Nov-04]				NOT GAU	JGED		
	22-Dec-04					NOT GAU	JGED		
	25-Jan-05			72.95	3,226.39	0.00			
	25-Apr-05			72.86	3,226.48	0.00			
	01-Sep-05			72.85	3,226.49	0.00			
	25-Oct-05			72.91	3,226.43	0.00			·
l.	28-Feb-06			72.90	3,226.44	0.00			
	30-Jun-06			72.94	3,226.40	0.00			
	03-Oct-06			72.98	3,226.36	0.00			
	28-Dec-06			73.07	3,226.27	0.00			
	28-Mar-07		and the state						
	24-Apr-07	The second		73.05	3,226.29	0.00			
	28-May-07		Street State	73.05	3,226.29	0.00			
	15-Jun-07			HG 73.05	3,226:29 ₀₁₁₁	114.4 • 0.00		CHARLES AND	
	06-Jul-07		iing na	73.06	^{**} 3,226.28	0.00		the second	
	13-Aug-07		a bara Bara Historia (material se Anje	73.10	3,226.24	0.00	THE REAL PROPERTY OF	Construction of the second sec	
	17-Sep-07		P.P.C.	73.05	3,226.29	0.00 DEL			
	08-Oct-07	Hereit	Wile rman	73.10	3,226.24	0.00			
	02-Nov-07		Contraction of the second s	73.10	3,226.24	0.00			

Total Recovered LNAPL is 19.33 gallons

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Notes:

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1. TOC-Top of Casing.

2. LNAPL - Light non-aqueous phase liquid.

3. Corrected groundwater elevations were calculated using an LNAPL specific gravity of 0.90 per previously reported data.

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4. NR - Not Recorded

5. NO - Not Operating

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SUMMARY OF ANALYTICAL RESULTS-BTEX SHELL OIL PRODUCTS US PENROSE "A" LEASE LEA COUNTY, NEW MEXICO

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX				
	-	· ·	NMWQCC Standard 3102.A,B.							
		10.01	750 ¹	750 ¹	6201					
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)				
MW-1	26-Jul-04	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	14-Oct-04	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	25-Jan-05	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	25-Apr-05	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	01-Sep-05	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	25-Oct-05	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	28-Feb-06	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	30-Jun-06	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	03-Oct-06	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	28-Dec-06	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL				
	28-Mar-07	LNAPL	LNAPL	LNAPL	ENAPL	LNAPL				
	02-Nov-07	LNÂPL	LNAPL	ENAPL	LNAPL	UNAPL				
MW-2	26-Jul-04	· <1.0	<1.0	<1.0	<1.0	<1.0				
	14-Oct-04	<5.0	<5.0	<5.0	<5.0	<5.0				
	25-Jan-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	25-Apr-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	01-Sep-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	25-Oct-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	28-Feb-06	< 0.440	< 0.540	<0.410	<1.23	<2.62				
	30-Jun-06	0.510	0.730	2.32	4.63	8.19				
	03-Oct-06			NOT ANALYZE	D					
	28-Dec-06	11	<2.0	<2.0	<3.0	<18				
	28-Mar-07	<1.0	2 :0	<2.0	<3.0	<8.0				
	02 , Nov-07	<u><1.0</u>	<2.0	<2.0	<3.0	<u>≪8.0</u> 6				
MW-3	26-Jul-04	<1.0	<1.0	<1.0	<1.0	<1.0				
	_14-Oct-04	<5.0	<5.0	<5.0	<5.0	<5.0				
	25-Jan-05	<1.0	<1.0	<1.0	<1.0	<1.0				
•	25-Apr-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	01-Sep-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	25-Oct-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	28-Feb-06	<0.440	< 0.540	<0.410	<1.23	<2.62				
	30-Jun-06	0.320	<0.280	< 0.340	< 0.820	0.320				
	03-Oct-06			NOT ANALYZE	D					
	28-Dec-06	4.8	< <u>2.0</u>	<2.0	<3.0	4.8				
	28-Mar-07	<1.0	<2.0	≪2.0	<3.0	<8.0				

1 of 2

SUMMARY OF ANALYTICAL RESULTS-BTEX SHELL OIL PRODUCTS US PENROSE "A" LEASE LEA COUNTY, NEW MEXICO

Sample ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX				
		NMWQCC Standard 3102.A,B.								
		10.01	750 ¹	750 ¹	6201					
	:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)				
MW-3										
(cont.)	102-INOV-074	<1.0	<2.0	<2.0	<3.0	<8.0				
MW-4	26-Jul-04	<1.0	<1.0	<1.0	<1.0	<1.0				
	14-Oct-04	<5.0	<5.0	<5.0	<5.0	<5.0				
	25-Jan-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	25-Apr-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	01-Sep-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	25-Oct-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	28-Feb-06	< 0.440	0.710	< 0.410	<1.23	<2.79				
	30-Jun-06	<0.290	<0.280	<0.340	<0.820	<1.73				
	03-Oct-06			NOT ANALYZE	D					
	28-Dec-06	<1.0	<2.0	<2.0	<3.0	<8.0				
	28-Mar-07	<1.0	<2.0	<2.0	, * <3.0	≦8:0				
	02 <u>Nov-07</u>	<1.0	<2.0	<2.0	<3.0	<8.0 yr 1				
MW-5	26-Jul-04	<1.0	<1.0	<1.0	<1.0	<1.0				
	14-Oct-04	<5.0	<5.0	<5.0	<5.0	<5.0				
	25-Jan-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	25-Apr-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	01-Sep-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	25-Oct-05	<1.0	<1.0	<1.0	<1.0	<1.0				
	28-Feb-06	< 0.440	<0.540	< 0.410	<1.23	<2.62				
	30-Jun-06	<0.290	0.710	< 0.340	4.59	4.59				
	03-Oct-06			NOT ANALYZE	D					
	28-Dec-06	4.0	<2.0	<2.0	<3.0	4.0				
	28-Mar-07	<1.0	<2.0	<2.0	≤3.0	<8.0				
	02-Nov-07	<1.0	₹2:0	** <2:0	_≼3.0.	8.0				

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مي الأرام. معادلة الم 1. New Mexico Water Quality Control Commission Standard 3103.A,B.

2. BTEX analysis by EPA Method 8021B (through Oct 05) and 8260B (Oct 05 through present).

3. LNAPL - Light non-aqeous phase liquids.

4. Data prior to Jan 06 collected by Enercon Services.

5. Data collected from Jan 06 through Sep 06 collected by Conestoga-Rovers and Associates (CRA)

6. Data collected since Oct 06 was collected under the direction of URS Corporation.

APPENDIX A

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CERTIFIED LABORATORY REPORTS

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CHAIN-OF-CUSTODY DOCUMENTATION

LABORATORY REPORT

Prepared For: URS - Phoenix - Shell

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7720 N. 16th Street Suite 100 Phoenix, AZ 85020 Attention: Iain Olness Project: Kennan Penrose A 300108/7105335

Sampled: 03/28/07 Received: 03/29/07 Issued: 04/12/07 10:51

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NELAP #01109CA Arizona DHS#AZ0426

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, I page, is included and is intended for the sole use of the context of this report.

is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LAE	SORATORY ID	CLIENT ID	MATRIX
	PQC0956-01	MW-2	Water
	PQC0956-02	MW-3	Water
	PQC0956-03	MW-4	Water
	PQC0956-04	MW-5	Water
	PQC0956-05	Trip Blank	Water
SAMPLE RECEIPT:	Samples were receiv	ed intact, at 2°C, on ice and with chain of custody	documentation.
HOLDING TIMES:	All samples were and Sample Acceptance I	alyzed within prescribed holding times and/or in a Policy unless otherwise noted in the report.	ccordance with the TestAmerica
PRESERVATION:	Samples requiring pr	reservation were verified prior to sample analysis.	
QA/QC CRITERIA:	All analyses met met	hod criteria, except as noted in the report with dat	a qualifiers.
COMMENTS:	No significant observ	vations were made.	
SUBCONTRACTED:	No analyses were sul	bcontracted to an outside laboratory.	

Reviewed By:

TestAmerica - Phoenix, AZ Tina Paulauskas Project Manager

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URS - Phoenix - Shell	Project ID:	Kennan Penrose A		
7720 N. 16th Street Suite 100	5	300108/7105335	Sampled:	03/28/07
Phoenix, AZ 85020	Report Number:	PQC0956	Received:	03/29/07
Attention: Iain Olness				
		AND DESCRIPTION OF A REAL PRODUCT OF A REAL PRODUCT OF A DESCRIPTION OF A	AND	

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PQC0956-01 (MW-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	P7D0534	1.0	ND	1	4/5/2007	4/5/2007	
Ethylbenzene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
Toluene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
Xylenes, Total	EPA 8260B	P7D0534	3.0	ND	1	4/5/2007	4/5/2007	
Surrogate: Dibromofluoromethane (80-130%)				117 %				
Surrogate: Toluene-d8 (80-120%)				102 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				102 %				
Sample ID: PQC0956-02 (MW-3 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	P7D0534	1.0	ND	1	4/5/2007	4/5/2007	
Ethylbenzene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
Toluene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
Xylenes, Total	EPA 8260B	P7D0534	3.0	ND	1	4/5/2007	4/5/2007	
Surrogate: Dibromofluoromethane (80-130%)				121 %				
Surrogate: Toluene-d8 (80-120%)				104 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				112 %				
Sample ID: PQC0956-03 (MW-4 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	P7D0534	1.0	ND	1	4/5/2007	4/5/2007	
Ethylbenzene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
Toluene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
Xylenes, Total	EPA 8260B	P7D0534	3.0	ND	1	4/5/2007	4/5/2007	
Surrogate: Dibromofluoromethane (80-130%)				116 %				
Surrogate: Toluene-d8 (80-120%)				107 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				106 %				

BTEX BY GC/MS (EPA 5030B/8260B)

TestAmerica - Phoenix, AZ Tina Paulauskas Project Manager

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URS - Phoenix - Shell 7720 N. 16th Street Suite 100 Phoenix, AZ 85020 Attention: Iain Olness

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Project ID: Kennan Penrose A 300108/7105335

Report Number: PQC0956

Sampled: 03/28/07 Received: 03/29/07

BTEX BY GC/MS (EPA 5030B/8260B)

				Reporting	Sample	Dilution	Date	Date	Data
3	Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
	Sample ID: PQC0956-04 (MW-5 - Water)							٠	
	Reporting Units: ug/l								
1.0	Benzene	EPA 8260B	P7D0534	1.0	ND	1	4/5/2007	4/5/2007	
1.4	Ethylbenzene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
1	Toluene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
	Xylenes, Total	EPA 8260B	P7D0534	3.0	ND	1	4/5/2007	4/5/2007	
4	Surrogate: Dibromofluoromethane (80-130%)				122 %				
ž.	Surrogate: Toluene-d8 (80-120%)				106 %				
	Surrogate: 4-Bromofluorobenzene (80-120%)				113 %				
1.19 20	Sample ID: PQC0956-05 (Trip Blank - Water)							
	Reporting Units: ug/l								
	Benzene	EPA 8260B	P7D0534	1.0	ND .	1	4/5/2007	4/5/2007	
	Ethylbenzene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
14 H	Toluene	EPA 8260B	P7D0534	2.0	ND	1	4/5/2007	4/5/2007	
	Xylenes, Total	EPA 8260B	P7D0534	3.0	ND	1	4/5/2007	4/5/2007	
_	Surrogate: Dibromofluoromethane (80-130%)				118 %				
-	Surrogate: Toluene-d8 (80-120%)				104 %				
2 2	Surrogate: 4-Bromofluorobenzene (80-120%)				111 %				

ANALYTICAL TESTING CORPORATION

URS - Phoenix - Shell 7720 N. 16th Street Suite 100 Phoenix, AZ 85020 Attention: Iain Olness Project ID: Kennan Penrose A 300108/7105335 Report Number: PQC0956

Sampled: 03/28/07 Received: 03/29/07

9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 Fax:(480) 785-0851

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BTEX BY GC/MS (EPA 5030B/8260B)

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: P7D0534 Extracted: 04/05/07										
Blank Analyzed: 04/05/2007 (P7D0534	4-BLK1)	,					•			
Benzene	ND	1.0	ug/l							
Ethylbenzene	ND	2.0	ug/l							
Toluene	ND	2.0	ug/l							
Xylenes, Total	ND	3.0	ug/l							
Surrogate: Dibromofluoromethane	29.7		ug/l	25.0		119	80-130			
Surrogate: Toluene-d8	25.5		ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	27.0		ug/l	25.0		108	80-120			
LCS Analyzed: 04/05/2007 (P7D0534-	BS1)									
Benzene	24.8	1.0	ug/l	25.0		99	80-120			
Ethylbenzene	26.6	2.0	ug/l	25.0		106	80-125			
Toluene	24.8	2.0	ug/l	25.0		99	80-125			
Xylenes, Total	50.9	3.0	ug/l	50.0		102	80-125			
Surrogate: Dibromofluoromethane	29.1		ug/l	25.0		116	80-130			
Surrogate: Toluene-d8	26.4		ug/l	25.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	26.9		ug/l	25.0		108	80-120			
LCS Dup Analyzed: 04/05/2007 (P7D0)534-BSD1)									
Benzene	25.9	1.0	ug/l	25.0		104	80-120	4	10	
Ethylbenzene	26.6	2.0	ug/l	25.0		106	80-125	0	15	
Toluene	24.9	2.0	ug/l	25.0		100	80-125	0	10	
Xylenes, Total	50.3	3.0	ug/l	50.0		101	80-125	1	15	
Surrogate: Dibromofluoromethane	29.5		ug/l	25.0		118	80-130			
Surrogate: Toluene-d8	25.9		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	25.5		ug/l	25.0		102	80-120			
Matrix Spike Analyzed: 04/05/2007 (P	7D0534-MS1)				Source: P	QC0956-0	2			
Benzene	25.6	1.0	ug/l	25.0	ND	102	80-125			
Ethylbenzene	26.2	2.0	ug/l	25.0	ND	105	80-130			
Toluene	26.1	2.0	ug/l	25.0	ND	104	80-130			
Xylenes, Total	51.9	3.0	ug/l	50.0	ND	104	80-125			
Surrogate: Dibromofluoromethane	31.3		ug/l	25.0		125	80-130			
Surrogate: Toluene-d8	27.4		ug/l	25.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	28.1		ug/l	25.0		112	80-120			

TestAmerica - Phoenix, AZ Tina Paulauskas Project Manager

> The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 Fax:(480) 785-0851

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URS - Phoenix - Shell
7720 N. 16th Street Suite 100
Phoenix, AZ 85020
Attention: Iain Olness

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Project ID: Kennan Penrose A 300108/7105335 Report Number: PQC0956

Sampled: 03/28/07 Received: 03/29/07

METHOD BLANK/QC DATA

BTEX BY GC/MS (EPA 5030B/8260B)

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: P7D0534 Extracted: 04/05/07	<u>7</u>									•
Matrix Spike Dup Analyzed: 04/05/2	007 (P7D0534-N	4SD1)			Source: F	QC0956-0)2			
Benzene	27.2	1.0	ug/l	25.0	ND	109	80-125	6	15	
Ethylbenzene	27.0	2.0	ug/l	25.0	ND	108	80-130	3	15	
Toluene	25.6	2.0	ug/l	25.0	ND	102	80-130	2	15	
Xylenes, Total	53.0	3.0	ug/l	50.0	ND	106	80-125	2	15	
Surrogate: Dibromofluoromethane	30.7		ug/l	25.0		123	80-130			
Surrogate: Toluene-d8	26.8		ug/l	25.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	27.2		ug/l	25.0		109	80-120			

TestAmerica - Phoenix, AZ Tina Paulauskas Project Manager

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24:28

ANALYTICAL TESTING CORPORATION

URS - Phoenix - Shell 7720 N. 16th Street Suite 100 Phoenix, AZ 85020 Attention: Iain Olness Project ID: Kennan Penrose A 300108/7105335 Report Number: PQC0956

Sampled: 03/28/07

9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 Fax:(480) 785-0851

Received: 03/29/07

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

TestAmerica - Phoenix, AZ *Tina Paulauskas* Project Manager

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URS - Phoenix - Shell	Project ID:	Kennan Penrose A			
7720 N. 16th Street Suite 100		300108/7105335	Sampled:	03/28/07	
Phoenix, AZ 85020	Report Number:	PQC0956	Received:	03/29/07	
Attention: Iain Olness	-				
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	Certifi	cation Summary			

TestAmerica - Phoenix, AZ

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Method	Matrix	Nelac	Arizona
EPA 8260B	Water	Х	Х

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 Fax:(480) 785-0851

LABORATORY REPORT Prepared For: URS - Phoenix - Shell Project: 88870999/121360 7720 N. 16th Street Suite 100 Phoenix, AZ 85020 Attention: Iain Olness Sampled: 11/02/07 Received: 11/03/07 Issued: 11/19/07 16:57 NELAP #01109CA Arizona DHS#AZ0426 The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, I page, is included and is an integral part of this report. This entire report was reviewed and approved for release. **CASE NARRATIVE** LABORATORY ID CLIENT ID MATRIX PQK0101-01 MW-2 Water PQK0101-02 MW-3 Water PQK0101-03 MW-4 Water PQK0101-04 MW-5 Water PQK0101-05 Trip Blank Water SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report. Samples requiring preservation were verified prior to sample analysis. PRESERVATION: QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers. No significant observations were made. COMMENTS: SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

Project Manager

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TestAmerica - Phoenix, AZ Corey Schrader For Tina Paulauskas

9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 Fax: (480) 785-0851

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No.

URS - Phoenix - Shell	Project ID:	88870999/121360	
7720 N. 16th Street Suite 100	1	Sampled	: 11/02/07
Phoenix, AZ 85020	Report Number:	PQK0101 Received	: 11/03/07
Attention: Iain Olness			

BTEX BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	٠	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Oualifiers
Samula ID: DOV0101 01 (MAX) 2 Watar)		2.000	25mill		2000	10000		· · · · · · · · · · · · · · · · · · ·	L
Departing United and									
Reporting Units: ug/	EDA 8260B	D7K 1502	10		NT	t	11/11/2007	11/14/2007	
Ethylhongong	ETA 8200D	D7K1503	1.0		ND	1	11/14/2007	11/14/2007	
Talvera	EPA 02000	D7V1502	2.0		ND	1	11/14/2007	11/14/2007	
Toluene Vedence Tetal	EFA 82000	P / N 1000	2.0		ND	1	11/14/2007	11/14/2007	
Aylenes, Total	EPA 8260B	P/K1503	3.0		ND	1	11/14/2007	11/14/2007	
Surrogate: Dibromofluoromethane (80-130%)					110 %				
Surrogate: Toluene-d8 (80-120%)					107%				
Surrogate: 4-Bromofluorobenzene (80-120%)					105 %				1
Sample ID: POK0101-02 (MW-3 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	P7K1503	1.0		ND	1	11/14/2007	11/14/2007	
Ethylbenzene	EPA 8260B	P7K1503	2.0		ND	1	11/14/2007	11/14/2007	
Toluene	EPA 8260B	P7K1503	2.0		ND	1	11/14/2007	11/14/2007	
Xvlenes, Total	EPA 8260B	P7K1503	3.0		ND	1	11/14/2007	11/14/2007	
Surrogate: Dibromofluoromethane (80-130%)					114%	-			
Surrogate: Toluene-d8 (80-120%)					108 %				
Surrogate: 4-Bromofluorobenzene (80-120%)			`		108 %				
Sample ID: PQK0101-03 (MW-4 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	P7K1503	1.0		ND	1	11/14/2007	11/14/2007	
Ethylbenzene	EPA 8260B	P7K1503	2.0		ND	1	11/14/2007	11/14/2007	
Toluene	EPA 8260B	P7K1503	2.0		ND	1	11/14/2007	11/14/2007	
Xylenes, Total	EPA 8260B	P7K1503	3.0		ND	1	11/14/2007	11/14/2007	
Surrogate: Dibromofluoromethane (80-130%)					116%				
Surrogate: Toluene-d8 (80-120%)			\sim		109 %				
Surrogate: 4-Bromofluorobenzene (80-120%)					110 %				

Corey Schrader For Tina Paulauskas Project Manager

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9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 Fax:(480) 785-0851

URS - Phoenix - Shell 7720 N. 16th Street Suite 100 Phoenix, AZ 85020 Attention: Iain Olness

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Sec. 2 .

Report Number: PQK0101

Project ID: 88870999/121360

Sampled: 11/02/07 Received: 11/03/07

BTEX BY GC/MS (EPA 5030B/8260B)

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PQK0101-04 (MW-5 - Water)								
Reporting Units: ug/l		•						
Benzene	EPA 8260B	P7K1503	1.0	ND	1	11/14/2007	11/14/2007	
Ethylbenzene	EPA 8260B	P7K1503	2.0	ND	1	11/14/2007	11/14/2007	
Toluene	EPA 8260B	P7K1503	2.0	ND	1	11/14/2007	11/14/2007	
Xylenes, Total	EPA 8260B	P7K1503	3.0	ND	1	11/14/2007	11/14/2007	
Surrogate: Dibromofluoromethane (80-130%)				115 %				
Surrogate: Toluene-d8 (80-120%)				109 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				107 %				
Sample ID: PQK0101-05 (Trip Blank - Water	r)							
Reporting Units: ug/l								
Benzene	EPA 8260B	P7K1503	1.0	ND	1	11/14/2007	11/14/2007	
Ethylbenzene	EPA 8260B	P7K1503	2.0	ND	1	11/14/2007	11/14/2007	
Toluene	EPA 8260B	P7K1503	2.0	ND	1	11/14/2007	11/14/2007	
Xylenes, Total	EPA 8260B	P7K1503	3.0	ND	1	11/14/2007	11/14/2007	
Surrogate: Dibromofluoromethane (80-130%)				119%				
Surrogate: Toluene-d8 (80-120%)				109 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				107 %				

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PQK0101 <Page 3 of 7>

9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 Fax:(480) 785-0851

URS - Phoenix - Shell 7720 N. 16th Street Suite 100 Phoenix, AZ 85020 Attention: Iain Olness Project ID: 88870999/121360

Report Number: PQK0101

Sampled: 11/02/07 Received: 11/03/07

METHOD BLANK/QC DATA

BTEX BY GC/MS (EPA 5030B/8260B)

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: P7K1503 Extracted: 11/14/0	<u>17</u>	e.								
Blank Analyzed: 11/14/2007 (P7K15	503-BLK1)									
Benzene	ND	1.0	ug/l							
Ethylbenzene	ND	2.0	ug/l							
Toluene	ND	2.0	ug/l							
Xylenes, Total	ND	3.0	ug/l							
Surrogate: Dibromofluoromethane	27.6	-	ug/l	25.0		111	80-130			
Surrogate: Toluene-d8	27.1		ug/l	25.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	26.7		ug/l	25.0		107	80-120			
LCS Analyzed: 11/14/2007 (P7K150	3-BS1)									
Benzene	25.4	1.0	ug/l	25.0		102	80-120			
Ethylbenzene	24.5	2.0	ug/l	25.0		98	80-125			
Toluene	24.6	2.0	ug/l	25.0		98	80-125			
Xylenes, Total	48.4	3.0	ug/l	50.0		97	80-125			
Surrogate: Dibromofluoromethane	27.4		ug/l	25.0		110	80-130			
Surrogate: Toluene-d8	26.6		ug/l	25.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	26.6		ug/l	25.0		106	80-120			
LCS Dup Analyzed: 11/14/2007 (P7.	K1503-BSD1)									
Benzene	25.6	1.0	ug/l	25.0		103	80-120	ι	10	
Ethylbenzene	25.2	2.0	ug/l	25.0		101	80-125	3	- 15	
Toluene	25.4	2.0	ug/l	25.0		101	80-125	3	10	
Xylenes, Total	49.9	3.0	ug/l	50.0		100	80-125	3	15	
Surrogate: Dibromofluoromethane	27.5		ug/l	25.0		110	80-130			
Surrogate: Toluene-d8	26.8		ug/l	25.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	26.2		ug/l	25.0		105	80-120			
Matrix Spike Analyzed: 11/14/2007			Source: 1	PQK0101-	01					
Benzene	25.1	1.0	ug/l	25.0	ND	101	80-125			
Ethylbenzene	24.7	2.0	ug/l	25.0	ND	99	80-130			
Toluene	25.5	2.0	ug/l	25.0	ND	102	80-130			
Xylenes, Total	48.6	3.0	ug/l	50.0	ND	97	80-125			
Surrogate: Dibromofluoromethane	28.2		ug/l	25.0		113	80-130			
Surrogate: Toluene-d8	26.8		ug/l	25.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	26.6		ug/l	25.0		106	80-120			

TestAmerica - Phoenix, AZ

Corey Schrader For Tina Paulauskas Project Manager

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PQK0101 <Page 4 of 7>

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URS - Phoenix - Shell 7720 N. 16th Street Suite 100 Phoenix, AZ 85020 Attention: Iain Olness

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Project ID: 88870999/121360

Report Number: PQK0101

Sampled: 11/02/07 Received: 11/03/07

METHOD BLANK/QC DATA

BTEX BY GC/MS (EPA 5030B/8260B)

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	RPD 2 15 0 15 1 15 0 15	Qualifiers
Batch: P7K1503 Extracted: 11/14/07								•		
Matrix Spike Dup Analyzed: 11/14/20	07 (P7K1503-N	ASD1)			Source: F	QK0101-	01			
Benzene	25.7	1.0	ug/l	25.0	ND	103	80-125	2	15	
Ethylbenzene	24.7	2.0	ug/l	25.0	ND	99	80-130	0	15	
Toluene	25.2	2.0	ug/l	25.0	ND	101	80-130	1	15	
Xylenes, Total	48.5	3.0	ug/î	50.0	ND	97	80-125	0	15	
Surrogate: Dibromofluoromethane	27.8		ug/l	25.0		111	80-130			
Surrogate: Toluene-d8	27.7		ug/l	25.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	27.0		ug/l	25.0		108	80-120			

TestAmerica - Phoenix, AZ

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Corey Schrader For Tina Paulauskas Project Manager

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PQK0101 <Page 5 of 7>

9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 Fax:(480) 785-0851

URS - Phoenix - Shell 7720 N. 16th Street Suite 100 Phoenix, AZ 85020 Attention: Iain Olness Project ID: 88870999/121360

Report Number: PQK0101

Sampled: 11/02/07 Received: 11/03/07

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD

Relative Percent Difference

TestAmerica - Phoenix, AZ Corey Schrader For Tina Paulauskas Project Manager

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PQK0101 <**Page 6 of 7**>

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9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 (480) 785-0043 Fax:(480) 785-0851

n an				
URS - Phoenix - Shell	Project ID:	88870999/121360		
7720 N. 16th Street Suite 100			Sampled:	11/02/07
Phoenix, AZ 85020 Re	eport Number:	PQK0101 1	Received:	11/03/07
Attention: Iain Olness				
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Certification Summary

TestAmerica - Phoenix, AZMethodMatrixNelacArizonaEPA 8260BWaterXX

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Phoenix, AZ

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S. B. Law

Corey Schrader For Tina Paulauskas Project Manager

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PQK0101 <Page 7 of 7>

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