

AP – 119

2012 GWMR

11 / 07 / 2012

TABLE 1

2012 GROUNDWATER ELEVATION DATA

**PRO-KEM, INC.
LOVINGTON YARD
LEA COUNTY, NEW MEXICO
NMOCD REF NO: API-119**

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO WATER	CORRECTED GROUNDWATER ELEVATION	TOTAL WELL DEPTH	FREE PRODUCT THICKNESS
MW-1	10/24/12	3,895.67	65.43	3,830.24	73.06	0.00
MW-2	10/24/12	3,894.33	64.81	3,829.52	69.87	0.00
MW-3	10/24/12	3,894.13	65.51	3,828.62	70.68	0.00

TABLE 2

2012 CONCENTRATIONS OF BENZENE & BTEX IN GROUNDWATER

PRO-KEM, INC.
 LOVINGTON YARD
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NO: API-119

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8260b							
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	M,P- XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL XYLENE (mg/L)	TOTAL BTEX (mg/L)	CARBON TERTRACHLORIDE (mg/L)
MW-1	10/24/2012	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	1.55
MW-2	10/24/2012	<0.010	<0.010	<0.010	<0.020	<0.010	<0.030	<0.030	0.034
MW-3	10/24/2012	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.180
WQCC Standard		0.01	0.75	0.75	TOTAL XYLENES		0.62		0.002

October 26, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: LOVINGTON YARD (AP1-119)

Enclosed are the results of analyses for samples received by the laboratory on 10/25/12 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
BEN J. ARGUIJO
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 10/25/2012
Reported: 10/26/2012
Project Name: LOVINGTON YARD (AP1-119)
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 10/24/2012
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MW-2 (H202596-01)

Volatile 8260			mg/L		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	1.55	0.010	10/26/2012	ND	0.025	102	0.0250	6.31	
Benzene*	<0.010	0.010	10/26/2012	ND	0.024	97.8	0.0250	5.51	
Toluene*	<0.010	0.010	10/26/2012	ND	0.025	101	0.0250	7.84	
Ethylbenzene*	<0.010	0.010	10/26/2012	ND	0.026	104	0.0250	8.40	
m+p - Xylene*	<0.020	0.020	10/26/2012	ND	0.054	109	0.0500	7.61	
o-Xylene*	<0.010	0.010	10/26/2012	ND	0.027	107	0.0250	8.60	
Total Xylenes*	<0.030	0.030	10/26/2012	ND	0.081	108	0.0750	7.93	
<hr/>									
Surrogate: Dibromofluoromethane	123 %	70.2-143							
Surrogate: Toluene-d8	106 %	73.8-118							
Surrogate: 4-Bromofluorobenzene	93.5 %	48-134							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/25/2012	Sampling Date:	10/24/2012
Reported:	10/26/2012	Sampling Type:	Water
Project Name:	LOVINGTON YARD (AP1-119)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MW-3 (H202596-02)

Volatile 8260		mg/L		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.034	0.001	10/26/2012	ND	0.025	102	0.0250	6.31	
Benzene*	<0.001	0.001	10/26/2012	ND	0.024	97.8	0.0250	5.51	
Toluene*	<0.001	0.001	10/26/2012	ND	0.025	101	0.0250	7.84	
Ethylbenzene*	<0.001	0.001	10/26/2012	ND	0.026	104	0.0250	8.40	
m+p - Xylene*	<0.002	0.002	10/26/2012	ND	0.054	109	0.0500	7.61	
o-Xylene*	<0.001	0.001	10/26/2012	ND	0.027	107	0.0250	8.60	
Total Xylenes*	<0.003	0.003	10/26/2012	ND	0.081	108	0.0750	7.93	
<hr/>									
Surrogate: Dibromofluoromethane	117 %	70.2-143							
Surrogate: Toluene-d8	102 %	73.8-118							
Surrogate: 4-Bromofluorobenzene	81.4 %	48-134							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
BEN J. ARGUIJO
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	10/25/2012	Sampling Date:	10/24/2012
Reported:	10/26/2012	Sampling Type:	Water
Project Name:	LOVINGTON YARD (AP1-119)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MW-1 (H202596-03)

Volatile 8260			mg/L		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.180	0.001	10/25/2012	ND	0.025	102	0.0250	6.31	
Benzene*	<0.001	0.001	10/25/2012	ND	0.024	97.8	0.0250	5.51	
Toluene*	<0.001	0.001	10/25/2012	ND	0.025	101	0.0250	7.84	
Ethylbenzene*	<0.001	0.001	10/25/2012	ND	0.026	104	0.0250	8.40	
m+p - Xylene*	<0.002	0.002	10/25/2012	ND	0.054	109	0.0500	7.61	
o-Xylene*	<0.001	0.001	10/25/2012	ND	0.027	107	0.0250	8.60	
Total Xylenes*	<0.003	0.003	10/25/2012	ND	0.081	108	0.0750	7.93	
Surrogate: Dibromofluoromethane	124 %	70.2-143							
Surrogate: Toluene-d8	103 %	73.8-118							
Surrogate: 4-Bromofluorobenzene	80.1 %	48-134							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories

101 East Marland
Hobbs, NM 88240
Tel (575) 393-2326
Fax (575) 393-2476

[illegible]