AP – 119

Q2 2013 GWMR

02/12/2013

TABLE 2

CONCENTRATIONS OF BTEX & CARBON TETRACHLORIDE IN GROUNDWATER

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

					METH	IODS: EPA S	N 846-8260b		
SAMPLE LOCATION	SAMPLE DATE	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	0.180
MW-1	1/29/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.134
MW-1	5/9/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.167
MW-2	10/24/2012	<0.010	<0.010	<0.010	<0.020	<0.010	<0.030	<0.030	1.55
MW-2	1/29/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	1.50
MW-2	5/9/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.181
MW-3	10/24/2012	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.034
MW-3	1/29/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.020
MW-3	5/9/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.012
WQCC Standard		0.01	0.75	0.75	TOTAL >	YLENES	0.62		0.002

TABLE 1

GROUNDWATER ELEVATION DATA

PRO-KEM, INC. LOVINGTON YARD LEA COUNTY, NEW MEXICO NMOCD REF NO: AP-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-1	01/29/13	3,895.67	65.66	3,830.01	73.01	0.00
MW-1	05/09/13	3,895.67	66.02	3,829.65	72.58	0.00
MW-2	10/24/12	3,894.33	64.81	3,829.52	69.87	0.00
MW-2	01/29/13	3,894.33	65.17	3,829.16	69.84	0.00
MW-2	05/09/13	3,894.33	63.44	3,830.89	69.85	0.00
MW-3	10/24/12	3,894.13	65.51	3,828.62	70.68	0.00
MW-3	01/29/13	3,894.13	65.75	3,828.38	70.68	0.00
MW-3	05/09/13	3,894.13	66.11	3,828.02	70.75	0.00



May 14, 2013

JOEL LOWRY 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 05/09/13 9:13.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/09/2013	Sampling Date:	05/09/2013
Reported:	05/14/2013	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 (H301110-01)

Volatile 8260	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.012	0.001	05/10/2013	ND	0.019	92.9	0.0200	7.76	
Benzene*	< 0.001	0.001	05/10/2013	ND	0.019	94.1	0.0200	5.33	
Toluene*	< 0.001	0.001	05/10/2013	ND	0.019	93.9	0.0200	5.09	
Ethylbenzene*	< 0.001	0.001	05/10/2013	ND	0.019	94.8	0.0200	4.29	
m+p - Xylene*	<0.002	0.002	05/10/2013	ND	0.039	97.4	0.0400	5.37	
o-Xylene*	< 0.001	0.001	05/10/2013	ND	0.019	94.2	0.0200	5.17	
Total Xylenes*	<0.003	0.003	05/10/2013	ND	0.058	96.4	0.0600	5.30	
Surrogate: Dibromofluoromethane	97.8 %	% 70.2-14	3						
Surrogate: Toluene-d8	101 %	6 73.8-11	8						
Surrogate: 4-Bromofluorobenzene	98.5 %	48-134	t.						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/09/2013	Sampling Date:	05/09/2013
Reported:	05/14/2013	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-2 (H301110-02)

Volatile 8260	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.181	0.001	05/10/2013	ND	0.019	92.9	0.0200	7.76	
Benzene*	< 0.001	0.001	05/10/2013	ND	0.019	94.1	0.0200	5.33	
Toluene*	<0.001	0.001	05/10/2013	ND	0.019	93.9	0.0200	5.09	
Ethylbenzene*	< 0.001	0.001	05/10/2013	ND	0.019	94.8	0.0200	4.29	
m+p - Xylene*	<0.002	0.002	05/10/2013	ND	0.039	97.4	0.0400	5.37	
o-Xylene*	< 0.001	0.001	05/10/2013	ND	0.019	94.2	0.0200	5.17	
Total Xylenes*	<0.003	0.003	05/10/2013	ND	0.058	96.4	0.0600	5.30	
Surrogate: Dibromofluoromethane	101 %	6 70.2-14	3						
Surrogate: Toluene-d8	100 %	6 73.8-11	8						
Surrogate: 4-Bromofluorobenzene	99.2 %	6 48-134	t						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/09/2013	Sampling Date:	05/09/2013
Reported:	05/14/2013	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 (H301110-03)

Volatile 8260	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.167	0.001	05/10/2013	ND	0.019	92.9	0.0200	7.76	
Benzene*	< 0.001	0.001	05/10/2013	ND	0.019	94.1	0.0200	5.33	
Toluene*	<0.001	0.001	05/10/2013	ND	0.019	93.9	0.0200	5.09	
Ethylbenzene*	< 0.001	0.001	05/10/2013	ND	0.019	94.8	0.0200	4.29	
m+p - Xylene*	<0.002	0.002	05/10/2013	ND	0.039	97.4	0.0400	5.37	
o-Xylene*	< 0.001	0.001	05/10/2013	ND	0.019	94.2	0.0200	5.17	
Total Xylenes*	<0.003	0.003	05/10/2013	ND	0.058	96.4	0.0600	5.30	
Surrogate: Dibromofluoromethane	101 %	6 70.2-14	3						
Surrogate: Toluene-d8	102 %	6 73.8-11	8						
Surrogate: 4-Bromofluorobenzene	99.0%	6 48-134	t						

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Celey D. Keine

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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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