

AP – 119

Q4 2013 GWMR

12 / 23 / 2013



December 21, 2013

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 12/16/13 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	12/16/2013	Sampling Date:	12/13/2013
Reported:	12/21/2013	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 (H303045-01)**

Volatile 8260		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Carbon tetrachloride*</b>	<b>0.009</b>	0.0005	12/19/2013	ND	0.017	85.5	0.0200	2.37	
Benzene*	<0.0005	0.0005	12/19/2013	ND	0.017	84.1	0.0200	1.83	
Toluene*	<0.0005	0.0005	12/19/2013	ND	0.018	91.0	0.0200	3.62	
Ethylbenzene*	<0.0005	0.0005	12/19/2013	ND	0.019	93.4	0.0200	1.44	
m+p - Xylene*	<0.001	0.001	12/19/2013	ND	0.037	92.2	0.0400	1.80	
o-Xylene*	<0.0005	0.0005	12/19/2013	ND	0.019	95.6	0.0200	1.81	
Total Xylenes*	<0.002	0.002	12/19/2013	ND	0.056	93.4	0.0600	1.80	

<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>	<i>70.2-143</i>
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	<i>73.8-118</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.6 %</i>	<i>48-134</i>

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Reported:	12/21/2013	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 (H303045-02)**

Volatile 8260			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Carbon tetrachloride*</b>	<b>0.147</b>	0.0005	12/19/2013	ND	0.017	85.5	0.0200	2.37	
Benzene*	<0.0005	0.0005	12/19/2013	ND	0.017	84.1	0.0200	1.83	
Toluene*	<0.0005	0.0005	12/19/2013	ND	0.018	91.0	0.0200	3.62	
Ethylbenzene*	<0.0005	0.0005	12/19/2013	ND	0.019	93.4	0.0200	1.44	
m+p - Xylene*	<0.001	0.001	12/19/2013	ND	0.037	92.2	0.0400	1.80	
o-Xylene*	<0.0005	0.0005	12/19/2013	ND	0.019	95.6	0.0200	1.81	
Total Xylenes*	<0.002	0.002	12/19/2013	ND	0.056	93.4	0.0600	1.80	
<hr/>									
Surrogate: Dibromofluoromethane	106 %	70.2-143							
Surrogate: Toluene-d8	98.5 %	73.8-118							
Surrogate: 4-Bromofluorobenzene	96.7 %	48-134							

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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 (H303045-03)**

Volatile 8260			mg/L							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Carbon tetrachloride*</b>	<b>0.693</b>	0.0005	12/19/2013	ND	0.017	85.5	0.0200	2.37		
Benzene*	<0.0005	0.0005	12/19/2013	ND	0.017	84.1	0.0200	1.83		
Toluene*	<0.0005	0.0005	12/19/2013	ND	0.018	91.0	0.0200	3.62		
Ethylbenzene*	<0.0005	0.0005	12/19/2013	ND	0.019	93.4	0.0200	1.44		
m+p - Xylene*	<0.001	0.001	12/19/2013	ND	0.037	92.2	0.0400	1.80		
o-Xylene*	<0.0005	0.0005	12/19/2013	ND	0.019	95.6	0.0200	1.81		
Total Xylenes*	<0.002	0.002	12/19/2013	ND	0.056	93.4	0.0600	1.80		
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Surrogate: Dibromofluoromethane	110 %	70.2-143								
Surrogate: Toluene-d8	101 %	73.8-118								
Surrogate: 4-Bromofluorobenzene	93.4 %	48-134								

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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. Keene, Lab Director/Quality Manager

