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Platteville, CO 80651



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Fax: 970.785.5099  
www.nobleenergyinc.com

North America Division

Remediation 5350

October 27, 2011

Mr. Robert Chesson  
Department Of Natural Resources  
Oil & Gas Conservation Commission  
1120 Lincoln St., Suite 801  
Denver CO 80203-2136

RE: Groundwater Monitoring Results  
Romero Angelina 1, 2  
API 05-123-12728  
Sec. 3, T4N R65W  
Weld County, Colorado

Dear Mr. Chesson:

Please find attached the Quarterly Groundwater Monitoring Report for the Romero Angelina 1, 2. Noble Energy Inc. would like to claim business confidentiality protection for the information submitted in this letter, the supporting materials attached and all previous and subsequent correspondence related to this matter. Please contact the Noble Energy Environmental Department at (970) 785-5000 if you have any questions or require additional information.

Sincerely,

A handwritten signature in blue ink that reads 'Todd Cullum'.

Todd Cullum  
Environmental Specialist

Attachments

# FREMONT ENVIRONMENTAL INC.

Remediation 5350

October 26, 2011

Mr. Todd Cullum  
Noble Energy Inc.  
804 Grand Ave  
Platteville, CO 80651

Subject: **Ground Water Monitoring Report**  
Romero Angelina 1,2 SW ¼ NW ¼ Sec. 3 T4N R65W  
API # 05-123-12728  
La Salle, Colorado  
Fremont Project No. C010-009

Dear Mr. Cullum:

Enclosed please find a copy of the above referenced Ground Water Monitoring Report for the Romero Angelina site in La Salle, Colorado. The enclosed report describes monitoring and sampling efforts to assess ground water quality at the site. Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,  
**FREMONT ENVIRONMENTAL INC.**



Paul V. Henehan, P.E.  
Senior Consultant

Enclosure

**GROUND WATER MONITORING REPORT**

**NOBLE ENERGY INC.  
ROMERO ANGELINA 1,2  
LA SALLE, COLORADO  
FREMONT PROJECT NO. C010-009**

**Prepared by:**

**Fremont Environmental Inc.  
12021 Pennsylvania Street, Suite 205  
Thornton, CO 80241  
(303) 956-8714**

**October 26, 2011**

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# **GROUND WATER MONITORING REPORT**

**NOBLE ENERGY INC.  
ROMERO ANGELINA 1,2  
LA SALLE, COLORADO  
FREMONT PROJECT NO. C010-009**

## **1.0 INTRODUCTION**

The purpose of this document is to present ground water quality data collected subsequent to remediation efforts at the Romero Angelina 1,2 site in La Salle, Colorado. Soil contamination was identified at this facility and remediation was accomplished by extensive excavation of contaminated soil in October 2010. Prior to the excavation work, a number of soil borings and monitoring wells were installed to delineate the magnitude and extent of subsurface contamination; three of the monitoring wells were initially selected for ongoing compliance monitoring. However, after one of these compliance wells became contaminated, two additional monitoring wells were added to the quarterly sampling program.

## **2.0 BACKGROUND INFORMATION**

### **2.1 Site Location**

The Romero Angelina 1,2 site is located approximately 1½ miles east of La Salle, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area east of County Road 43 and south of County Road 48. The location is further described as the SW ¼ of the NW ¼ of Section 3, Township 4N, Range 65W.

### **2.2 Site History**

The site is a natural gas production and oil storage facility for the Romero Angelina 1,2 wells. Historical soil contamination was observed during reconfiguration of the tanks and piping at this facility. This historical contamination may be attributed to releases from the concrete water pit or flow lines over the life of the facility. Ground water in the area is present at approximately three feet below the ground surface.

### **3.0 GROUND WATER MONITORING ACTIVITIES**

#### **3.1 Ground Water Level Measurements**

Ground water levels were measured in the site's six remaining monitoring wells on September 23, 2011 in accordance with the Sampling Plan included in Appendix A. The data are summarized in Table 1. Water table contours inferred from the September 23, 2011 data are illustrated on Figure 2. Based on these data, ground water is inferred to flow to the northeast. The water table gradient was calculated at approximately 0.003 feet per foot (ft/ft) for the September 2011 data.

#### **3.2 Ground Water Sampling and Analysis**

Ground water samples were collected from four monitoring wells (MW-5, MW-6, MW-7 and MW-8) on July 27, 2011 to confirm the unexpected presence of elevated petroleum hydrocarbon concentrations noted during the June 2011 sampling event. In addition, ground water samples were collected from five monitoring wells (MW-3, MW-5, MW-6, MW-7 and MW-8) on September 23, 2011. The ground water samples were submitted to Origins Laboratory, Inc. in Denver, Colorado for analyses of benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B. The ground water chemistry data is illustrated on Figure 3.

The laboratory data indicated that the BTEX constituents were below their respective laboratory detection limits for the water samples collected from wells MW-3, MW-6 and MW-8 during July and September 2011. However, detectable concentrations of benzene were observed in samples collected from well MW-5 in September 2011 (2.3 ug/L) and MW-7 in both of the sampling events. The benzene concentration in MW-7 was 4,830 ug/L in July 2011 and 4,330 ug/L in September 2011.

The ground water analytical data are summarized in Table 1. A copy of the laboratory reports, quality control data, and chain-of-custody documentation are presented in Appendix B.

#### **4.0 DISCUSSION**

Soil remediation was accomplished at the Romero Angelina 1,2 site by extensive excavation of contaminated soil in October 2010. Since that time, several monitoring wells have been utilized to monitor ground water quality at the site; most recently, these included MW-3, MW-5, MW-6, MW-7, and MW-8.

On July 27 and September 23, 2011, the ground water samples collected from monitoring wells MW-3, MW-5, MW-6 and MW-8 were below the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 levels for BTEX. However, the ground water samples collected from MW-7 had benzene concentrations of 4,830 and 4,330 ug/L during July and September 2011, respectively. As shown on Table 1, the benzene concentration in MW-7 has trended downward since reaching its maximum concentration of 5,540 ug/L observed during the June 2011 sampling event.

Noble will continue to sample the ground water quarterly to monitor the ground water quality at this site. Wells to be sampled will include MW-3, MW-5, MW-6, MW-7 and MW-8,.

#### **5.0 REMARKS**

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**

 For MWA

10/26/11

Date \_\_\_\_\_

\_\_\_\_\_  
Wayne Austin

Construction Supervisor

Reviewed by:



10/25/11

Date \_\_\_\_\_

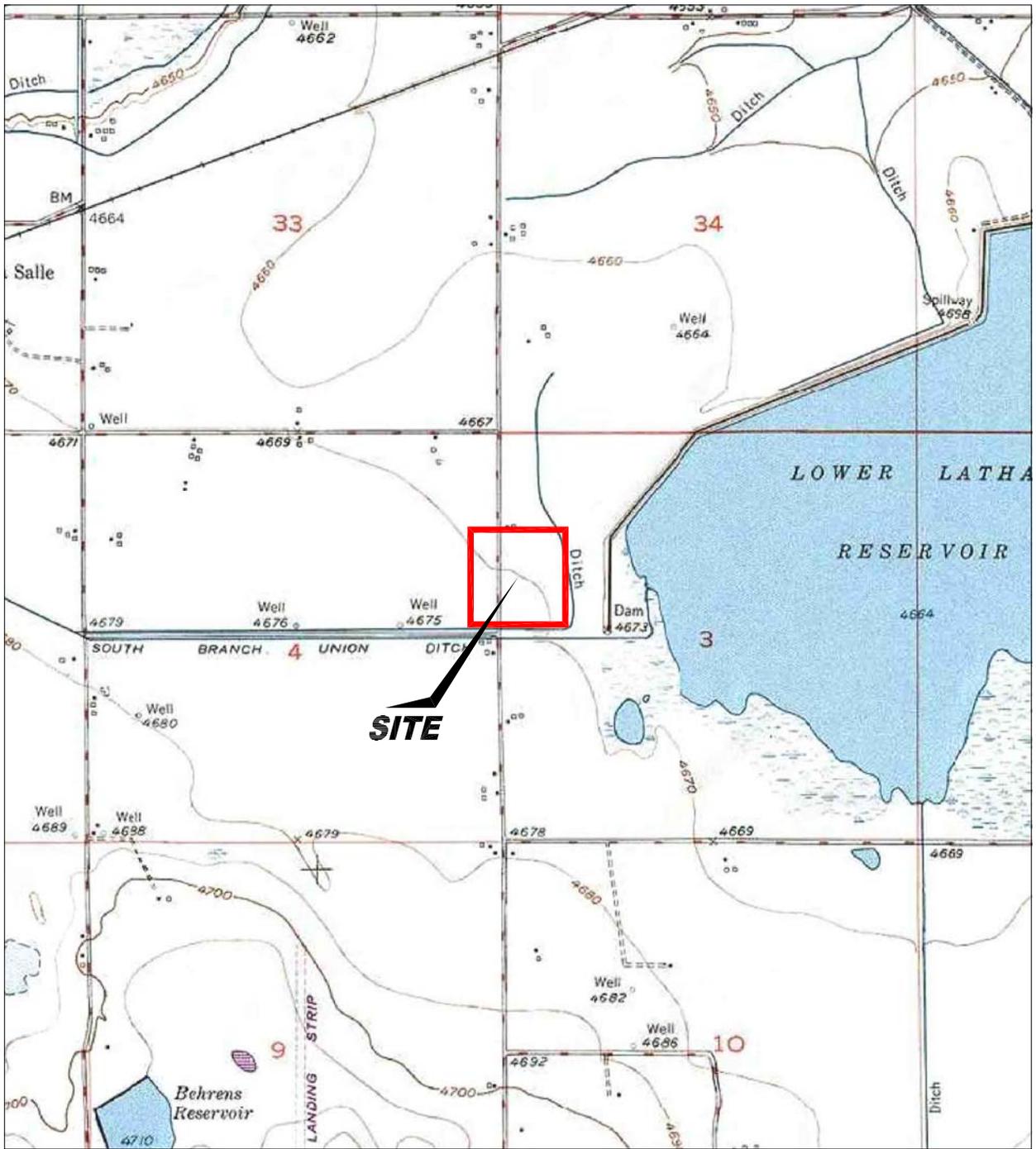
\_\_\_\_\_  
Paul V. Henehan, P.E.

Senior Consultant

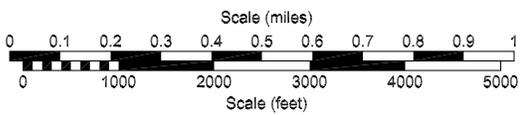
**TABLE**



## **FIGURES**



**SITE**



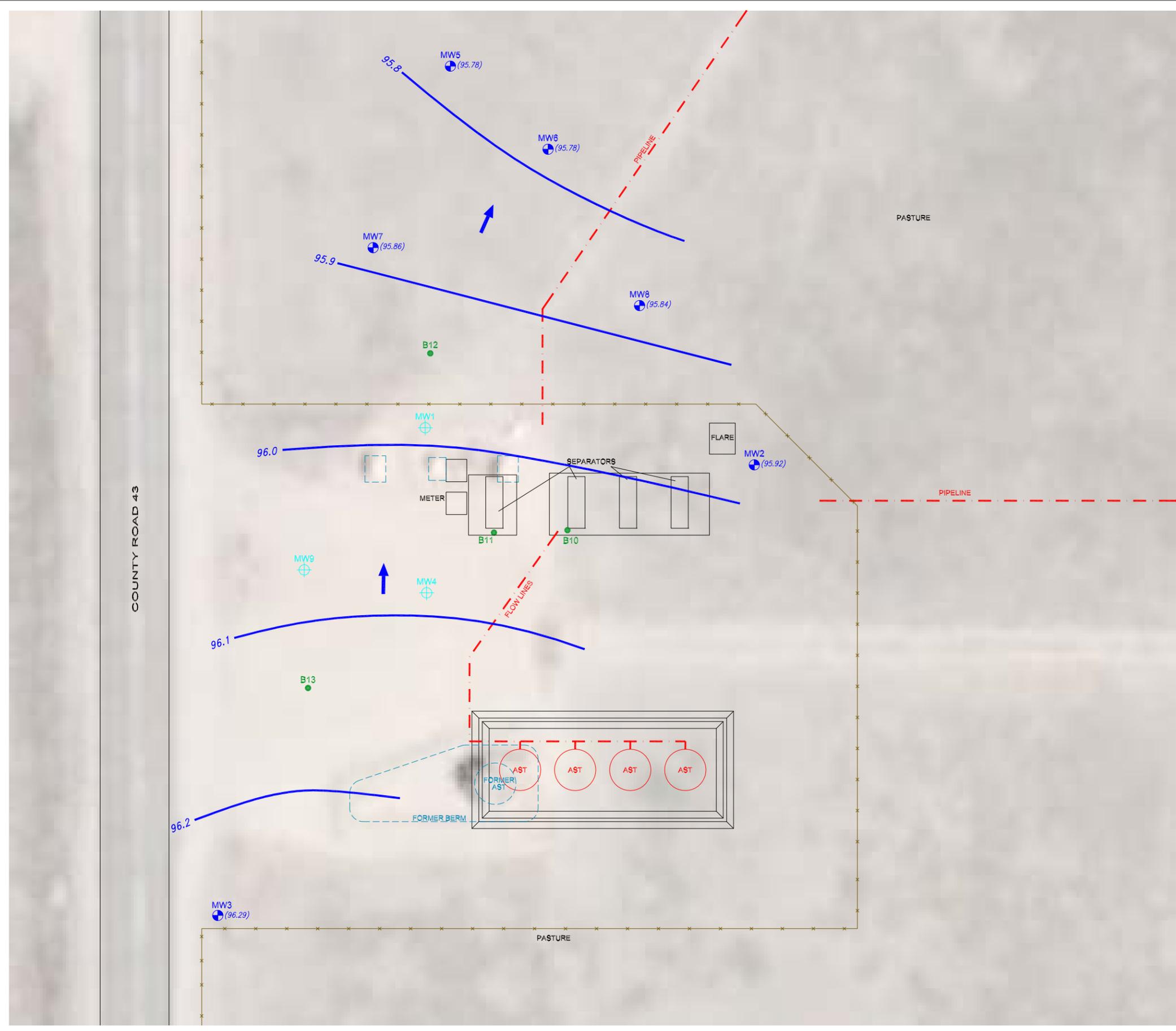
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

Noble Energy  
Romero Angelino 1,2  
La Salle, Colorado

Project No. C010-009	Prepared by	Drawn by JMA
Date 9/15/10	Reviewed by	Filename 10009T





**LEGEND**

- MONITORING WELL
- DESTROYED MONITORING WELL
- SOIL BORING
- FENCE LINE
- PIPELINE
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- GROUND WATER ELEVATION (ft above arbitrary datum)
- NOT MEASURED
- WATER TABLE CONTOUR
- GROUND WATER FLOW DIRECTION

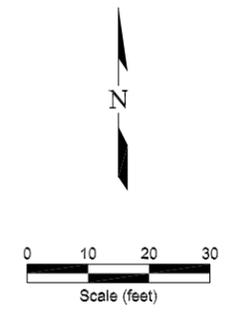
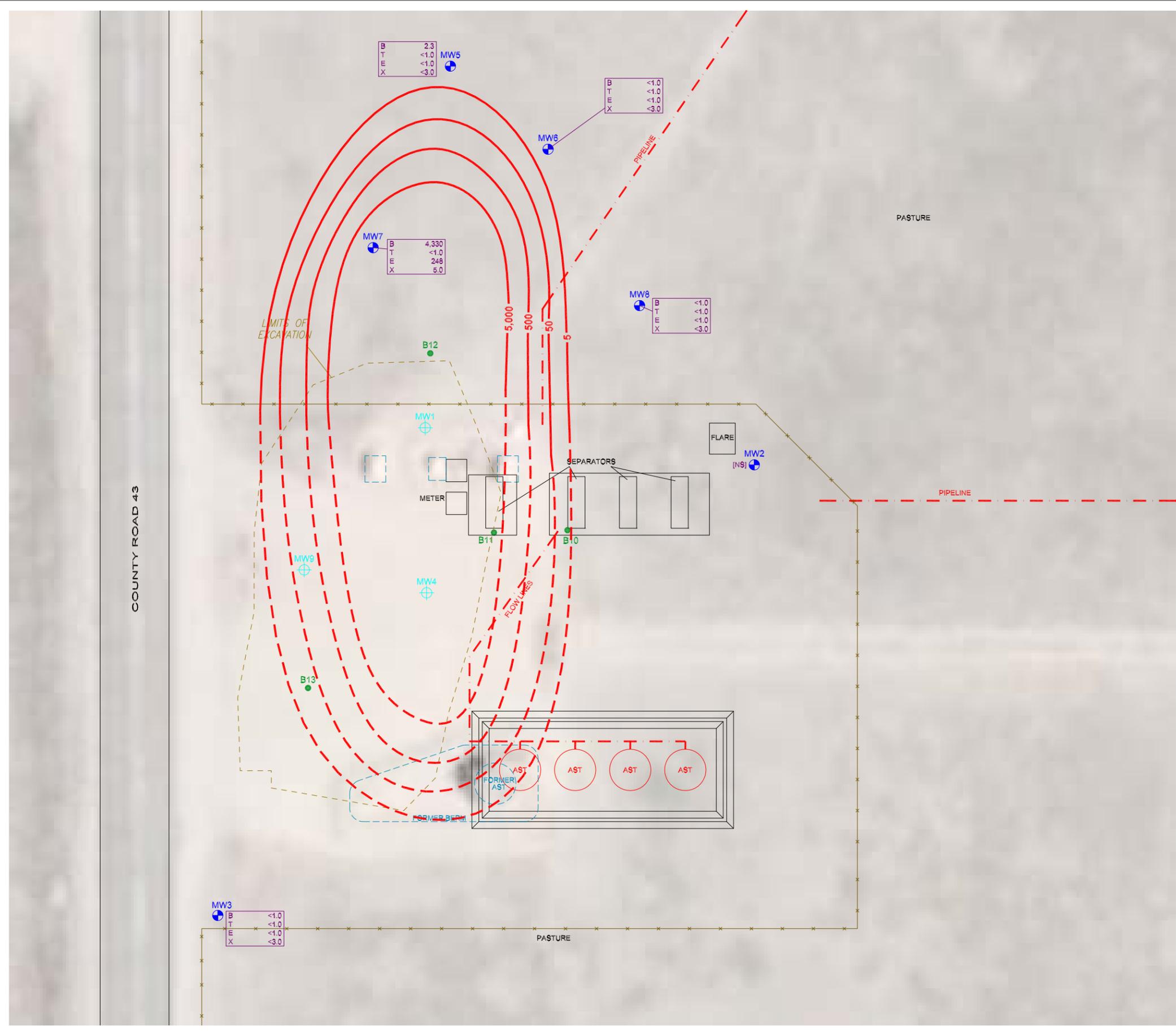


Figure 2  
**INFERRED GROUNDWATER CONTOUR**  
 SEPTEMBER 23, 2011

**Noble Energy**  
 Romero Angelino 1,2  
 La Salle, Colorado

Project No. C010-009	Prepared by	Drawn by JMA	
Date 10/26/11	Reviewed by	Filename 10009Q	



### LEGEND

-  MONITORING WELL
-  DESTROYED MONITORING WELL
-  SOIL BORING
-  FENCE LINE
-  PIPELINE
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY

B	<1.0
T	<1.0
E	<1.0
X	<1.0

BENZENE (ug/L)  
TOLUENE (ug/L)  
ETHYLBENZENE (ug/L)  
TOTAL XYLENES (ug/L)

NS NOT SAMPLED

 BENZENE ISOCONCENTRATION (ug/L)  
(Dashed where inferred)

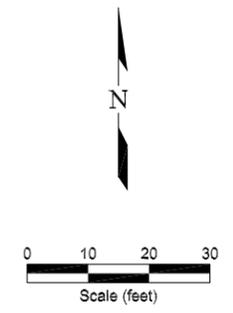


Figure 3  
**GROUND WATER CHEMISTRY MAP**  
SEPTEMBER 23, 2011

**Noble Energy**  
Romero Angelino 1,2  
La Salle, Colorado

Project No. C010-009	Prepared by JMA	Drawn by JMA	
Date 10/26/11	Reviewed by	Filename 10009Q	

**APPENDIX A**

**SAMPLING PLAN**

## SAMPLING METHODS AND PROCEDURES

### Water Level Measurements

All ground water level measurements will be obtained using an electric measuring device, which indicates when a probe is in contact with ground water. Measurements will be obtained by lowering the device into the well until the water surface had been encountered, and by measuring the distance from the top of the inside riser pipe to the probe. All of the measurements will be recorded to the nearest 0.01 ft. To minimize cross-contamination, the water level indicator will be decontaminated with isopropyl alcohol and distilled water between each well.

### Monitoring Well Sampling

All monitoring wells were sampled from the “cleanest” to the “most contaminated” according to the protocols listed below.

#### Field Protocol

- Step 1 Measure water level in each well.
- Step 2 Purge each monitoring well by evacuating a minimum of three well bore volumes using a disposable polyethylene bailer.
- Step 3 Collect water samples using a disposable polyethylene bailer.
- Step 4 Cool samples to approximately 4°C for transportation.
- Step 5 Store water samples and transport to a specific laboratory, following all documentation and chain-of-custody procedures.

Upon completion of ground water sampling, a chain-of-custody log will be completed. Chain-of-custody records include the following information: project, project number, shipped by, shipped to, suspected hazard, sampling point, location, field identification number, date collected, sample type, number of containers, analysis required, and sampler's signature.

The chain-of-custody records will be shipped with the samples to the laboratory. Upon arrival at the laboratory the samples will be checked in and signed by the appropriate laboratory personnel. Laboratory identification numbers will be noted on the chain-of-custody record. Upon completion of the laboratory analysis, the completed chain-of-custody record will be returned to the project manager.

### **Analytical Methods**

The following list identifies the various chemical constituents and analytical methods which will be used for their quantification.

<u>Chemical Parameter</u>	<u>Method</u>
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	EPA Method – 8260B
Total Petroleum Hydrocarbons - Gasoline Range Organics (TPH-GRO)	EPA Method – 8015 Modified
Total Petroleum Hydrocarbons - Diesel Range Organics (TPH-DRO)	EPA Method – 8015 Modified

**APPENDIX B**

**LABORATORY DOCUMENTATION**

October 03, 2011

**Fremont Environmental**

**Paul Henehan**

**16302. College #B2**

**Ft. Collins CO 80525**

**Project Name - Noble - Romero Angelino  
1,2**

**Project Number - C010-009**

Attached are you analytical results for Noble - Romero Angelino 1,2 received by Origins Laboratory, Inc. September 23, 2011. This project is associated with Origins project number X109156-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Fremont Environmental  
16302. College #B2  
Ft. Collins CO 80525

Project Number: C010-009  
Project Name: Noble - Romero Angelino 1,2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	X109156-01	Water	September 23, 2011 8:30	09/23/2011 11:10
MW-8	X109156-02	Water	September 23, 2011 9:00	09/23/2011 11:10
MW-6	X109156-03	Water	September 23, 2011 9:15	09/23/2011 11:10
MW-5	X109156-04	Water	September 23, 2011 9:30	09/23/2011 11:10
MW-7	X109156-05	Water	September 23, 2011 9:30	09/23/2011 11:10

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Noelle E Doyle, President

Fremont Environmental  
16302. College #B2  
Ft. Collins CO 80525

Project Number: C010-009  
Project Name: Noble - Romero Angelino 1,2

www.originslaboratory.com

page  of

X109156

**ORIGINS**  
LABORATORY, INC

Client: Noble Energy  
Address: Plantville  
Telephone Number: 970-580-1903  
Email Address: Paul.H.Fitzgerald@ENX.CO.UK

Project Manager: Paul Heselman  
Project Name: Romero Angelino 1,2  
Project Number: C010-009  
Samples Collected By: Wayne Austin

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #			Other
MW-3	9-23	8:30	3	X				X					1
MW-8	9-23	9:00	3	X				X					2
MW-6	9-23	9:15	3	X				X					3
MW-5	9-23	9:30	3	X				X					4
MW-7	9-23	9:30	3	X				X					5
													6
													7
													8
													9
													10
Relinquished By: <u>Wayne Austin</u>	Date: <u>9-23-11</u>	Time: <u>11:00</u>	Received By: <u>[Signature]</u>	Date: <u>9/23/11</u>	Time: <u>11:10</u>	Turnaround Time: <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard							

Date Results Needed

Origins Laboratory, Inc.

Noelle E Doyle, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental  
 16302. College #B2  
 Ft. Collins CO 80525

Project Number: C010-009  
 Project Name: Noble - Romero Angelino 1,2

Origins Laboratory

F-012207-01  
 Effective Date: 01/22/07

**Sample Receipt Checklist**

Origins Work Order: X109156

Client: FREMONT Client Project ID: ROMERO ANGELINO

Shipped Via: Pick-up Airbill #: N/A  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
(Describe)

Cooler ID	<u>N/A</u>				
Temp (°C)	<u>N/A</u>				

Thermometer ID: N/A

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ? NOTE: If samples are delivered within 5 hours of sampling, this requirement is waived provided that there is evidence that cooling has begun.			X	
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
If custody seals are present, are they intact <sup>(1)</sup> ?			X	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservation in the Comments column (e.g., HCl).	X			HCL
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note in the case narrative.

Ross Harris  
 Custodian Printed Name

R Harris  
 Signature or Initials of Custodian

9/22/11  
 Date/Time

Origins Laboratory, Inc.



Noelle E Doyle, President

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Fremont Environmental  
 16302. College #B2  
 Ft. Collins CO 80525

Project Number: C010-009  
 Project Name: Noble - Romero Angelino 1,2

MW-3

9/23/2011 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
 X109156-01 (Water)

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	1129009	09/29/2011	10/01/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Noelle E Doyle, President

Fremont Environmental  
 16302. College #B2  
 Ft. Collins CO 80525

Project Number: C010-009  
 Project Name: Noble - Romero Angelino 1,2

MW-8

9/23/2011 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
 X109156-02 (Water)

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	1129009	09/29/2011	10/01/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.4 %	70-130			"	"	"	

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Noelle E Doyle, President

Fremont Environmental  
 16302. College #B2  
 Ft. Collins CO 80525

Project Number: C010-009  
 Project Name: Noble - Romero Angelino 1,2

MW-6

9/23/2011 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
 X109156-03 (Water)

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	1129009	09/29/2011	10/01/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.1 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

Fremont Environmental  
 16302. College #B2  
 Ft. Collins CO 80525

Project Number: C010-009  
 Project Name: Noble - Romero Angelino 1,2

MW-5  
 9/23/2011 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
 X109156-04 (Water)

**BTEX by EPA 8260C**

Benzene	2.3	1.0	ug/L	1	1129009	09/29/2011	10/01/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

Fremont Environmental  
 16302. College #B2  
 Ft. Collins CO 80525

Project Number: C010-009  
 Project Name: Noble - Romero Angelino 1,2

MW-7

9/23/2011 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
 X109156-05 (Water)

**BTEX by EPA 8260C**

Benzene	4330	50.0	ug/L	50	1129009	09/29/2011	10/01/2011	
Toluene	ND	1.0	"	1	"	"	10/01/2011	
Ethylbenzene	248	50.0	"	50	"	"	10/01/2011	
Xylenes, total	5.0	3.0	"	1	"	"	10/01/2011	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	10/01/2011	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.2 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

Fremont Environmental  
 16302. College #B2  
 Ft. Collins CO 80525

Project Number: C010-009  
 Project Name: Noble - Romero Angelino 1,2

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1129009 - EPA 5030B

Blank (1129009-BLK1)

Prepared: 09/29/2011 Analyzed: 09/30/2011

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>108</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>58</i>		<i>"</i>	<i>62.5</i>		<i>92.0</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Noelle E Doyle, President

Fremont Environmental  
 16302. College #B2  
 Ft. Collins CO 80525

Project Number: C010-009  
 Project Name: Noble - Romero Angelino 1,2

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1129009 - EPA 5030B

Blank (1129009-BLK2)

Prepared: 09/29/2011 Analyzed: 09/30/2011

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>56</i>		<i>"</i>	<i>62.5</i>		<i>89.7</i>	<i>70-130</i>			

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Noelle E Doyle, President

Fremont Environmental  
 16302. College #B2  
 Ft. Collins CO 80525

Project Number: C010-009  
 Project Name: Noble - Romero Angelino 1,2

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control  
 Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1129009 - EPA 5030B

LCS (1129009-BS1)

Prepared: 09/29/2011 Analyzed: 09/30/2011

Benzene	51.4	1.0	ug/L	50.0		103	70-130			
Toluene	54.4	1.0	"	50.0		109	70-130			
Ethylbenzene	54.8	1.0	"	50.0		110	70-130			
m,p-Xylene	102	2.0	"	100		102	70-130			
o-Xylene	48.6	1.0	"	50.0		97.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>64</i>		<i>"</i>	<i>62.5</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>58</i>		<i>"</i>	<i>62.5</i>		<i>93.0</i>	<i>70-130</i>			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1129009 - EPA 5030B

LCS (1129009-BS2)

Prepared: 09/29/2011 Analyzed: 09/30/2011

Benzene	49.7	1.0	ug/L	50.0		99.4	70-130			
Toluene	52.6	1.0	"	50.0		105	70-130			
Ethylbenzene	52.2	1.0	"	50.0		104	70-130			
m,p-Xylene	98.4	2.0	"	100		98.4	70-130			
o-Xylene	47.1	1.0	"	50.0		94.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>103</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>59</i>		<i>"</i>	<i>62.5</i>		<i>94.0</i>	<i>70-130</i>			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1129009 - EPA 5030B

Matrix Spike (1129009-MS1)	Source: X109155-04			Prepared: 09/29/2011 Analyzed: 09/30/2011						
Benzene	49.2	1.0	ug/L	50.0	ND	98.3	70-130			
Toluene	52.5	1.0	"	50.0	ND	105	70-130			
Ethylbenzene	52.2	1.0	"	50.0	ND	104	70-130			
m,p-Xylene	97.7	2.0	"	100	ND	97.7	70-130			
o-Xylene	46.3	1.0	"	50.0	ND	92.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>64</i>		<i>"</i>	<i>62.5</i>		<i>103</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>58</i>		<i>"</i>	<i>62.5</i>		<i>92.8</i>	<i>70-130</i>			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1129009 - EPA 5030B

Matrix Spike (1129009-MS2)	Source: X109156-01			Prepared: 09/29/2011 Analyzed: 09/30/2011						
Benzene	47.9	1.0	ug/L	50.0	ND	95.7	70-130			
Toluene	50.2	1.0	"	50.0	ND	100	70-130			
Ethylbenzene	49.5	1.0	"	50.0	ND	99.0	70-130			
m,p-Xylene	94.6	2.0	"	100	ND	94.6	70-130			
o-Xylene	44.6	1.0	"	50.0	ND	89.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>64</i>		<i>"</i>	<i>62.5</i>		<i>103</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>58</i>		<i>"</i>	<i>62.5</i>		<i>93.6</i>	<i>70-130</i>			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1129009 - EPA 5030B

Matrix Spike Dup (1129009-MSD1)	Source: X109155-04			Prepared: 09/29/2011 Analyzed: 09/30/2011						
Benzene	50.3	1.0	ug/L	50.0	ND	101	70-130	2.23	20	
Toluene	53.2	1.0	"	50.0	ND	106	70-130	1.19	20	
Ethylbenzene	52.2	1.0	"	50.0	ND	104	70-130	0.00	20	
m,p-Xylene	99.6	2.0	"	100	ND	99.6	70-130	1.97	20	
o-Xylene	46.5	1.0	"	50.0	ND	93.0	70-130	0.366	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>58</i>		<i>"</i>	<i>62.5</i>		<i>92.7</i>	<i>70-130</i>			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1129009 - EPA 5030B

Matrix Spike Dup (1129009-MSD2)	Source: X109156-01			Prepared: 09/29/2011 Analyzed: 09/30/2011						
Benzene	50.9	1.0	ug/L	50.0	ND	102	70-130	6.14	20	
Toluene	53.5	1.0	"	50.0	ND	107	70-130	6.29	20	
Ethylbenzene	52.3	1.0	"	50.0	ND	105	70-130	5.56	20	
m,p-Xylene	100	2.0	"	100	ND	100	70-130	5.90	20	
o-Xylene	46.5	1.0	"	50.0	ND	93.0	70-130	4.19	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>106</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>59</i>		<i>"</i>	<i>62.5</i>		<i>93.8</i>	<i>70-130</i>			

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Project Name: Noble - Romero Angelino 1,2

### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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