



March 16, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - State M36-3, M36-5,  
6-36,7-36 and 8-36**

**Project Number - [none]**

Attached are your analytical results for Noble - State M36-3, M36-5, 6-36,7-36 and 8-36 received by Origins Laboratory, Inc. March 10, 2016. This project is associated with Origins project number X603168-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

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



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

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and 8-36

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	X603168-01	Water	March 10, 2016 14:15	03/10/2016 17:00
MW-02	X603168-02	Water	March 10, 2016 10:40	03/10/2016 17:00
MW-03	X603168-03	Water	March 10, 2016 14:00	03/10/2016 17:00
MW-04	X603168-04	Water	March 10, 2016 10:25	03/10/2016 17:00
MW-05R	X603168-05	Water	March 10, 2016 10:10	03/10/2016 17:00
MW-06	X603168-06	Water	March 10, 2016 10:55	03/10/2016 17:00
MW-15R	X603168-07	Water	March 10, 2016 13:45	03/10/2016 17:00
MW-19	X603168-08	Water	March 10, 2016 11:10	03/10/2016 17:00
MW-20	X603168-09	Water	March 10, 2016 11:25	03/10/2016 17:00

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 and 8-36

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X1003168 Client: Eagle Env.  
 Client Project ID: Noble - State  
 Checklist Completed by: Jeff Smith Shipped Via: HD  
 Date/time completed: 3/11/16 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply): Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 15-6 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)?</sup> (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCL
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) Jeff Smith Date/Time Reviewed 3/11/16

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 and 8-36

**MW-01**  
**3/10/2016 2:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X603168-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	B6C1106	03/11/2016	03/15/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	1.0	1.0	"	"	"	"	"	
Xylenes, total	1.3	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	84-114			"	"	"	

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**MW-02**

**3/10/2016 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X603168-02 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	B6C1106	03/11/2016	03/15/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	84-114			"	"	"	

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**MW-03**  
**3/10/2016 2:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X603168-03 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	B6C1106	03/11/2016	03/15/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	84-114			"	"	"	

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**MW-04**

**3/10/2016 10:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X603168-04 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	B6C1106	03/11/2016	03/15/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.5 %	84-114			"	"	"	

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**MW-05R**

**3/10/2016 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X603168-05 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	B6C1106	03/11/2016	03/15/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114			"	"	"	

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**MW-06**

**3/10/2016 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X603168-06 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	B6C1106	03/11/2016	03/16/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	111 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.9 %	84-114			"	"	"	

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**MW-15R**

**3/10/2016 1:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X603168-07 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	B6C1106	03/11/2016	03/15/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %	84-114			"	"	"	

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**MW-19**

**3/10/2016 11:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X603168-08 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	B6C1106	03/11/2016	03/15/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	106 %	84-121			"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %	84-114			"	"	"	

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**MW-20**  
**3/10/2016 11:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X603168-09 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	B6C1106	03/11/2016	03/15/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	84-114			"	"	"	

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**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 B6C1106 - EPA 5030B (Water)**

**Blank (B6C1106-BLK1)**

Prepared: 03/11/2016 Analyzed: 03/14/2016

Benzene	ND	1.0	ug/L							U
Toluene	ND	1.0	"							U
Ethylbenzene	ND	1.0	"							U
Xylenes, total	ND	1.0	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	84-114			

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**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 B6C1106 - EPA 5030B (Water)**

**LCS (B6C1106-BS1)**

Prepared: 03/11/2016 Analyzed: 03/14/2016

Benzene	47.2	1.0	ug/L	50.0		94.4	73.3-129			
Toluene	47.4	1.0	"	50.0		94.8	76.2-123			
Ethylbenzene	50.0	1.0	"	50.0		100	73.6-130			
m,p-Xylene	101	2.0	"	100		101	76.1-126			
o-Xylene	48.0	1.0	"	50.0		96.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.9	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	84-114			

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**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 B6C1106 - EPA 5030B (Water)

Matrix Spike (B6C1106-MS1)	Source: X603168-02			Prepared: 03/11/2016 Analyzed: 03/15/2016						
Benzene	49.5	1.0	ug/L	50.0	ND	98.9	74-130			
Toluene	48.4	1.0	"	50.0	ND	96.9	73-131			
Ethylbenzene	48.2	1.0	"	50.0	ND	96.4	76-132			
m,p-Xylene	92.3	2.0	"	100	ND	92.3	69-139			
o-Xylene	44.8	1.0	"	50.0	ND	89.6	74-131			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	84-114			

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**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 B6C1106 - EPA 5030B (Water)**

Matrix Spike Dup (B6C1106-MSD1)	Source: X603168-02				Prepared: 03/11/2016 Analyzed: 03/15/2016					
Benzene	47.2	1.0	ug/L	50.0	ND	94.5	74-130	4.61	20	
Toluene	47.6	1.0	"	50.0	ND	95.1	73-131	1.83	20	
Ethylbenzene	48.2	1.0	"	50.0	ND	96.4	76-132	0.0622	20	
m,p-Xylene	93.3	2.0	"	100	ND	93.3	69-139	1.03	20	
o-Xylene	46.6	1.0	"	50.0	ND	93.2	74-131	4.00	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	84-114			

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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