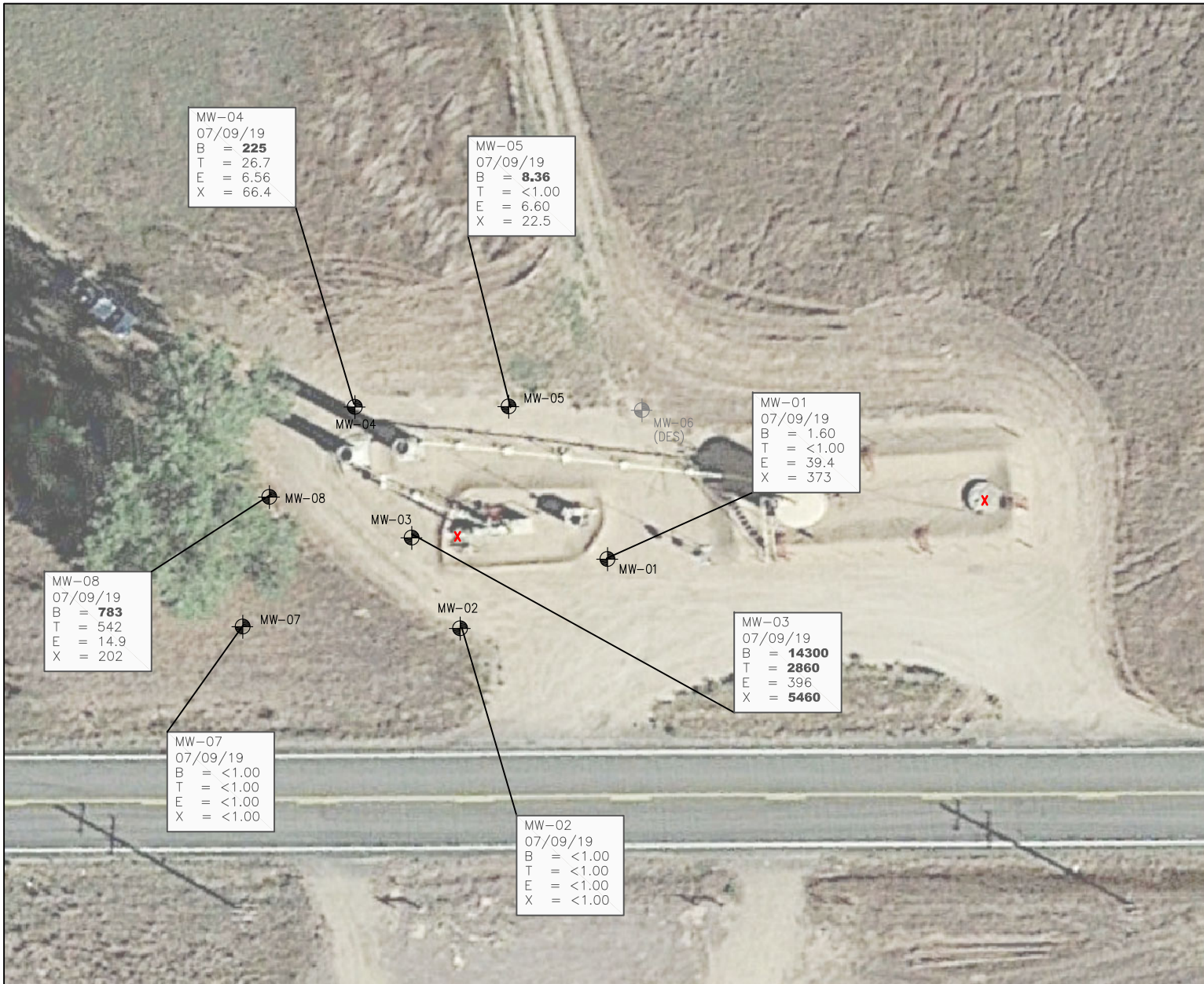




## **FIGURES**

**Figure 1: Groundwater Analytical Map (07/09/19)**

**Figure 2: Groundwater Elevation Map (07/09/19)**



NOTE: NOBLE FACILITIES HAVE BEEN REMOVED FROM THE SITE – SHOWN FOR ILLUSTRATIVE PURPOSES. ONLY THE DCP METER HOUSE REMAINS ON-SITE AS OF 02/25/19

**LEGEND**

- X APPROXIMATE RELEASE LOCATIONS
- APPROXIMATE MONITORING WELL LOCATIONS
- DESTROYED (DES) MONITORING WELL LOCATIONS

**PARAMETERS**

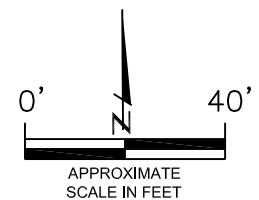
**SAMPLE LOCATION**  
**DATE**  
 B = BENZENE (µg/L)  
 T = TOLUENE (µg/L)  
 E = ETHYLBENZENE (µg/L)  
 X = TOTAL XYLENES (µg/L)

µg/L = MICROGRAMS PER LITER

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED COGCC TABLE 910-1 REGULATORY LIMITS.

COGCC – COLORADO OIL AND GAS CONSERVATION COMMISSION



**GROUNDWATER ANALYTICAL MAP**  
 (07/09/19)  
 GEMINI B #31-11, 12, 13, 14, 25  
 FLOW LINE RELEASE  
 40.348611 / -104.597026  
 SE1/4 SW1/4 SEC.31 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 REMEDIATION # 12355

DATE:  
08/23/19  
 DRAWN BY:  
AMN  
 FIG.  
NO. 1

**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.  
 8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449



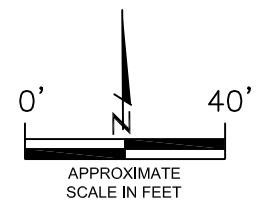
NOTE: NOBLE FACILITIES HAVE BEEN REMOVED FROM THE SITE – SHOWN FOR ILLUSTRATIVE PURPOSES. ONLY THE DCP METER HOUSE REMAINS ON-SITE AS OF 02/25/19

**LEGEND**

- X APPROXIMATE RELEASE LOCATIONS
  - APPROXIMATE MONITORING WELL LOCATIONS
  - DESTROYED (DES) MONITORING WELL LOCATIONS
  - (92.26) GROUNDWATER ELEVATION (FT.)
  - INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
  - APPROXIMATE GROUNDWATER FLOW DIRECTION
- FT. = FEET

**NOTE:**

GROUNDWATER ELEVATION DATA WAS COLLECTED ON JULY 9, 2019. GROUNDWATER ELEVATION DATA COLLECTED FROM MONITORING WELL MW-04 WAS NOT USED IN THE CONSTRUCTION OF INFERRED GROUNDWATER ELEVATION CONTOURS.



GROUNDWATER ELEVATION MAP  
 (07/09/19)  
 GEMINI B #31-11, 12, 13, 14, 25  
 FLOW LINE RELEASE  
 40.348611 / -104.597026  
 SE1/4 SW1/4 SEC.31 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 REMEDIATION # 12355

DATE:	08/23/19
DRAWN BY:	AMN
FIG. NO.	2

**EAGLE ENVIRONMENTAL CONSULTING, INC.**  
 8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449



## **TABLES**

**Table 1: Groundwater Analytical Results Summary**

**Table 2: Groundwater Elevation Summary**

**TABLE 1**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY**  
**GEMINI B #31-11, 12, 13, 14, 25**  
**FLOW LINE RELEASE**  
**40.348611 / -104.597026**  
**SE¼ SW¼ SEC.31 T5N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**REMEDATION # 12355**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>
MW-01 (40.348598 / -104.596953)	10/19/18	<4.00	<4.00	32.2	563
	01/03/19	1.75	<1.00	<1.00	<1.00
	04/09/19	<1.00	<1.00	<1.00	<1.00
	07/09/19	1.60	<1.00	39.4	373
MW-02 (40.348562 / -104.597124)	10/19/18	<1.00	<1.00	<1.00	<1.00
	01/03/19	<1.00	<1.00	<1.00	<1.00
	04/09/19	<1.00	<1.00	<1.00	<1.00
	07/09/19	<1.00	<1.00	<1.00	<1.00
MW-03 (40.348624 / -104.597153)	10/19/18	<b>11100</b>	<b>8470</b>	<1.00	<b>7610</b>
	01/03/19	<b>8880</b>	<b>668</b>	70.2	<b>1930</b>
	04/09/19	<b>577</b>	<100	<100	<100
	07/09/19	<b>14300</b>	<b>2860</b>	396	<b>5460</b>
MW-04 (40.348710 / -104.597192)	10/19/18	<b>3290</b>	<b>6640</b>	<1.00	<b>5360</b>
	01/03/19	<b>3250</b>	<b>2540</b>	178	<b>3930</b>
	04/09/19	<b>1530</b>	508	<50.0	512
	07/09/19	<b>225</b>	26.7	6.56	66.4
MW-05 (40.348709 / -104.597051)	10/19/18	1.50	5.48	1.80	15.0
	01/03/19	<b>11.2</b>	<1.00	17.8	73.6
	04/09/19	1.62	<1.00	1.50	7.61
	07/09/19	<b>8.36</b>	<1.00	6.60	22.5
MW-06 (40.348710 / -104.596927)	10/19/18	<b>5.26</b>	<1.00	<1.00	4.53
	01/03/19	<1.00	<1.00	<1.00	<1.00
	04/09/19	DES			
	07/09/19	DES			
MW-07 (40.348557 / -104.597285)	01/03/19	<1.00	<1.00	<1.00	<1.00
	04/09/19	<1.00	<1.00	<1.00	<1.00
	07/09/19	<1.00	<1.00	<1.00	<1.00
MW-08 (40.348649 / -104.597266)	01/03/19	<b>720</b>	<b>891</b>	45.6	648
	04/09/19	<b>23.1</b>	20.5	<10.0	<10.0
	07/09/19	<b>783</b>	542	14.9	202

COGCC = Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.

Values presented in **bold** typeface exceed their respective COGCC - Regulatory Limits (Table 910-1).

**TABLE 2  
GROUNDWATER ELEVATION SUMMARY  
GEMINI B #31-11, 12, 13, 14, 25  
FLOW LINE RELEASE  
40.348611 / -104.597026  
SE¼ SW¼ SEC.31 T5N R64W 6PM  
WELD COUNTY, COLORADO  
REMEDATION # 12355**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet) (TOC)	Stickup Height (feet)	Depth to Groundwater (feet) (BGS)
MW-01 (40.348598/-104.596953)	10/19/18	99.54	14.35	85.19	2.87	11.48
	01/03/19		15.56	83.98		12.69
	04/09/19		16.02	83.52		13.15
	07/09/19		12.99	86.55		10.12
MW-02 (40.348562/-104.597124)	10/19/18	100.00	13.55	86.45	3.23	10.32
	01/03/19		14.97	85.03		11.74
	04/09/19		15.21	84.79		11.98
	07/08/19	99.30	10.19	89.11	2.10	8.09
MW-03 (40.348624/-104.597153)	10/19/18	99.67	13.65	86.02	3.01	10.64
	01/03/19		14.59	85.08		11.58
	04/09/19		15.23	84.44		12.22
	07/09/19		11.45	88.22		8.44
MW-04 (40.348710/-104.597192)	10/19/18	97.86	12.75	85.11	3.07	9.68
	01/03/19		13.60	84.26		10.53
	04/09/19		12.33	85.53		9.26
	07/09/19	95.82	9.68	86.14	1.00	8.68
MW-05 (40.348709/-104.597051)	10/19/18	98.53	16.00	82.53	2.66	13.34
	01/03/19		15.61	82.92		12.95
	04/09/19		16.14	82.39		13.48
	07/09/19		14.47	84.06		11.81
MW-06 (40.348710/-104.596927)	10/19/18	98.89	15.15	83.74	2.53	12.62
	01/03/19		15.72	83.17		13.19
	04/09/19			DES		
MW-07 (40.348557/-104.597285)	01/03/19	100.92	14.28	86.64	2.68	11.60
	04/09/19		14.43	86.49		11.75
	07/09/19		10.19	90.73		7.51
MW-08 (40.348649/-104.597266)	01/03/19	97.46	11.86	85.60	2.55	9.31
	04/09/19		12.49	84.97		9.94
	07/09/19		9.18	88.28		6.63
NOTES: TOC - top of casing BGS - below ground surface						



## **ATTACHMENT A**

### **Laboratory Analytical Report**



July 11, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Gemini B  
#31-11,12,13,14,25**

**Project Number - [none]**

Attached are your analytical results for Noble - Gemini B #31-11,12,13,14,25 received by Origins Laboratory, Inc. July 09, 2019. This project is associated with Origins project number Y907133-01.

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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Gemini B #31-11,12,13,14,25

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y907133-01	Water	July 9, 2019 12:00	07/09/2019 14:04
MW-02	Y907133-02	Water	July 9, 2019 12:10	07/09/2019 14:04
MW-03	Y907133-03	Water	July 9, 2019 12:14	07/09/2019 14:04
MW-04	Y907133-04	Water	July 9, 2019 12:25	07/09/2019 14:04
MW-05	Y907133-05	Water	July 9, 2019 12:23	07/09/2019 14:04
MW-07	Y907133-06	Water	July 9, 2019 12:37	07/09/2019 14:04
MW-08	Y907133-07	Water	July 9, 2019 12:40	07/09/2019 14:04

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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25



www.originslaboratory.com

Y907133

page 1 of 1

Client: Eagle Env. Consulting  
 Address: 8000 W 44th Ave  
 Telephone Number: 303-433-0479  
 Email Address: mce3@eagle-enviro.com

Project Manager: Martin Eckert III  
 Project Name: Gemini B #31-11,12,13,14,25  
 Project Number: \_\_\_\_\_  
 Samples Collected By: CEC/LL

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Canister #	Other			
MW-01	7/9/19	1200	3	X				X						
MW-02		1210												
MW-03		1214												
MW-04		1225												
MW-05		1228												
MW-07		1237												
MW-08		1240												
Relinquished By: <u>Grace Congdon</u>	Date: <u>7/9/19</u>	Time: <u>14:04</u>		Received By: <u>[Signature]</u>	Date: <u>7/9/19</u>	Time: <u>14:04</u>		Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard						
Relinquished By:	Date:	Time:		Received By:	Date:	Time:								

Temp Received: 4.6 Date Results Needed: Noble

Origins Laboratory, Inc.

*Jefe Pellegrini*

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.

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y907133

Client: Eagle

Client Project ID: Gemini B 31-11,12,13,14,25

Checklist Completed by: JG

Shipped Via: HD

Date/time completed: 7/9/2019

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

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

Cooler Number/Temperature: 1 / 4.6 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T003

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with Na <sub>2</sub> CO <sub>3</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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) JG

Date/Time Reviewed 7/10/19

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.

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

**MW-01**  
**7/9/2019 12:00:00PM**

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

**Origins Laboratory, Inc.**  
**Y907133-01 (Water)**

**BTEX by EPA 8260D**

Benzene	1.60	1.00	ug/L	1	B9G1001	KDK	07/10/2019	07/10/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	39.4	1.00	"	"	"	KDK	"	"	
Xylenes, total	373	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	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.*

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

**MW-02**

**7/9/2019 12:10:00PM**

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

**Origins Laboratory, Inc.**  
**Y907133-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9G1001	KDK	07/10/2019	07/10/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

**MW-03**

**7/9/2019 12:14:00PM**

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

**Origins Laboratory, Inc.**  
**Y907133-03 (Water)**

**BTEX by EPA 8260D**

Benzene	14300	200	ug/L	200	B9G1001	KDK	07/10/2019	07/11/2019	
Toluene	2860	200	"	"	"	KDK	"	"	
Ethylbenzene	396	200	"	"	"	KDK	"	"	
Xylenes, total	5460	200	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	80.4 %			70-130		"	"	07/10/2019	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %			70-130		"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

**MW-04**

**7/9/2019 12:25:00PM**

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

**Origins Laboratory, Inc.**  
**Y907133-04 (Water)**

**BTEX by EPA 8260D**

Benzene	<b>225</b>	4.00	ug/L	4	B9G1001	KDK	07/10/2019	07/10/2019	
Toluene	<b>26.7</b>	4.00	"	"	"	KDK	"	"	
Ethylbenzene	<b>6.56</b>	4.00	"	"	"	KDK	"	"	
Xylenes, total	<b>66.4</b>	4.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		"	"	"	
Surrogate: Toluene-d8	106 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

**MW-05**

**7/9/2019 12:23:00PM**

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

**Origins Laboratory, Inc.**  
**Y907133-05 (Water)**

**BTEX by EPA 8260D**

Benzene	8.36	1.00	ug/L	1	B9G1001	KDK	07/10/2019	07/10/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.60	1.00	"	"	"	KDK	"	"	
Xylenes, total	22.5	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

**MW-07**

**7/9/2019 12:37:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907133-06 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9G1001	KDK	07/10/2019	07/10/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

**MW-08**

**7/9/2019 12:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907133-07 (Water)**

**BTEX by EPA 8260D**

Benzene	783	4.00	ug/L	4	B9G1001	KDK	07/10/2019	07/10/2019	
Toluene	542	4.00	"	"	"	KDK	"	"	
Ethylbenzene	14.9	4.00	"	"	"	KDK	"	"	
Xylenes, total	202	4.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	103 %			70-130		"	"	"	
Surrogate: Toluene-d8	106 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %			70-130		"	"	"	

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 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1001 - EPA 5030B (Water)**

**Blank (B9G1001-BLK1)**

Prepared: 07/10/2019 Analyzed: 07/10/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1001 - EPA 5030B (Water)**

**LCS (B9G1001-BS1)**

Prepared: 07/10/2019 Analyzed: 07/10/2019

Benzene	59.3	1.00	ug/L	50.0		119	70-130			
Toluene	59.6	1.00	"	50.0		119	70-130			
Ethylbenzene	52.3	1.00	"	50.0		105	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
o-Xylene	49.6	1.00	"	50.0		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.3	70-130			
Surrogate: Toluene-d8	67		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		106	70-130			

Origins Laboratory, Inc.



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 Project Number: [none]  
 Project: Noble - Gemini B #31-11,12,13,14,25

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1001 - EPA 5030B (Water)**

<b>Matrix Spike (B9G1001-MS1)</b>	<b>Source: Y907129-01</b>			<b>Prepared: 07/10/2019 Analyzed: 07/10/2019</b>						
Benzene	53.7	1.00	ug/L	50.0	ND	107	70-130			
Toluene	55.6	1.00	"	50.0	ND	111	70-130			
Ethylbenzene	50.2	1.00	"	50.0	ND	100	70-130			
m,p-Xylene	99.8	2.00	"	100	ND	99.8	70-130			
o-Xylene	47.7	1.00	"	50.0	ND	95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		111	70-130			

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 Project: Noble - Gemini B #31-11,12,13,14,25

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1001 - EPA 5030B (Water)**

Matrix Spike Dup (B9G1001-MSD1)	Source: Y907129-01			Prepared: 07/10/2019 Analyzed: 07/10/2019						
Benzene	65.3	1.00	ug/L	50.0	ND	131	70-130	19.6	20	QM-07
Toluene	65.8	1.00	"	50.0	ND	132	70-130	16.8	20	QM-07
Ethylbenzene	58.6	1.00	"	50.0	ND	117	70-130	15.4	20	
m,p-Xylene	116	2.00	"	100	ND	116	70-130	14.9	20	
o-Xylene	55.6	1.00	"	50.0	ND	111	70-130	15.2	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Gemini B #31-11,12,13,14,25

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**Notes and Definitions**

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President