

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
STATE 16-1614 FLOW LINE
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.

Monitoring Well	Date	Depth to Water (feet btoc)	Groundwater Elevation * (feet AMSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
SB01	1/29/2014	6.05	4,677.58	<4.0	<4.0	<4.0	<4.0
	4/24/2014	6.23	4,677.40	<1.0	<1.0	<1.0	<1.0
	7/21/2014	5.75	4,677.88	<1.0	<1.0	<1.0	<1.0
	10/16/2014	6.10	4,677.53	<1.0	<1.0	<1.0	<1.0
	1/21/2015	6.15	4,677.48	<1.0	<1.0	<1.0	<1.0
	4/9/2015	5.85	4,677.78	<1.0	<1.0	<1.0	<1.0
SB02	1/29/2014	5.75	4,677.47	109	172	14.6	155
	4/24/2014	5.85	4,677.37	444	6.7	43.1	352
	7/21/2014	5.80	4,677.42	500	<4.0	76.0	230
	10/16/2014	6.00	4,677.22	580	13.9	89.2	265
	1/21/2015	5.95	4,677.27	248	<10.0	54.9	200
	4/9/2015	5.54	4,677.68	246	2.2	78.5	288
SB03	1/29/2014	5.45	4,677.72	262	<4.0	<4.0	9.4
	4/24/2014	6.18	4,676.99	53.7	<2.0	<2.0	<2.0
	7/21/2014	6.00	4,677.17	194	<1.0	5.7	<1.0
	10/16/2014	6.25	4,676.92	35.3	<1.0	<1.0	<1.0
	1/21/2015	6.35	4,676.82	1.5	<1.0	<1.0	<1.0
	4/9/2015	7.50	4,675.67	<1.0	<1.0	<1.0	<1.0
SB04	1/29/2014	6.06	4,677.19	<4.0	<4.0	<4.0	<4.0
	4/24/2014	6.00	4,677.25	<1.0	<1.0	<1.0	<1.0
	7/28/2014	5.91	4,677.34	<1.0	<1.0	<1.0	<1.0
	10/16/2014	6.33	4,676.92	<1.0	<1.0	<1.0	<1.0
	1/21/2015	6.36	4,676.89	<1.0	<1.0	<1.0	<1.0
	4/9/2015	5.64	4,677.61	<1.0	<1.0	<1.0	<1.0
SB05	1/29/2014	5.68	4,677.91	<4.0	<4.0	<4.0	<4.0
	4/24/2014	5.92	4,677.67	<1.0	<1.0	<1.0	<1.0
	7/28/2014	5.66	4,677.93	<1.0	<1.0	<1.0	<1.0
	10/16/2014	5.96	4,677.63	<1.0	<1.0	<1.0	<1.0
	1/21/2015	5.96	4,677.63	<1.0	<1.0	<1.0	<1.0
	4/9/2015	5.73	4,677.86	<1.0	<1.0	<1.0	<1.0
SB06	3/19/2014	5.19	4,678.08	33.6	<4.0	<4.0	<4.0
	4/24/2014	6.21	4,677.06	180	<1.0	<1.0	6.4

TABLE 1 (Continued)

GROUNDWATER ANALYTICAL RESULTS
STATE 16-1614 FLOW LINE
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.

Monitoring Well	Date	Depth to Water (feet btoc)	Groundwater Elevation * (feet AMSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
SB06	7/21/2014	5.92	4,677.35	159	<1.0	6.8	<1.0
	10/16/2014	6.30	4,676.97	<1.0	<1.0	<1.0	<1.0
	1/21/2015	6.31	4,676.96	<1.0	<1.0	<1.0	<1.0
	4/9/2015	5.80	4,677.47	3.9	<1.0	<1.0	<1.0
SB07	3/19/2014	5.20	4,677.90	245	<4.0	41.8	<4.0
	4/24/2014	6.40	4,676.70	228	<2.0	62.7	409
	7/28/2014	6.00	4,677.10	1.5	<1.0	36.6	<1.0
	10/16/2014	6.48	4,676.62	1.4	<1.0	<1.0	<1.0
	1/21/2015	6.23	4,676.87	<1.0	<1.0	<1.0	<1.0
	4/9/2015	5.50	4,677.60	<1.0	<1.0	<1.0	<1.0
SB08	3/19/2014	5.39	4,677.94	<4.0	<4.0	<4.0	<4.0
	4/24/2014	6.60	4,676.73	<1.0	<1.0	<1.0	<1.0
	7/28/2014	6.21	4,677.12	<1.0	<1.0	<1.0	<1.0
	10/16/2014	6.68	4,676.65	12.3	<1.0	<1.0	<1.0
	1/21/2015	6.71	4,676.62	<1.0	<1.0	<1.0	<1.0
	4/9/2015	6.14	4,677.19	<1.0	<1.0	<1.0	<1.0
SB09	4/24/2014	6.15	4,677.15	<1.0	<1.0	<1.0	<1.0
	7/21/2014	5.85	4,677.45	<1.0	<1.0	<1.0	<1.0
	10/16/2014	6.48	4,676.82	<1.0	<1.0	<1.0	<1.0
	1/21/2015	6.51	4,676.79	<1.0	<1.0	<1.0	<1.0
	4/9/2015	5.75	4,677.55	<1.0	<1.0	<1.0	<1.0
SB10	4/24/2014	6.43	4,676.63	<1.0	<1.0	<1.0	<1.0
	7/21/2014	5.94	4,677.12	<1.0	<1.0	<1.0	<1.0
	10/16/2014	6.60	4,676.46	<1.0	<1.0	<1.0	<1.0
	1/21/2015	6.69	4,676.37	<1.0	<1.0	<1.0	<1.0
	4/9/2015	5.88	4,677.18	<1.0	<1.0	<1.0	<1.0
SB11	4/24/2014	6.61	4,676.27	6.0	<1.0	<1.0	6.0
	7/21/2014	5.96	4,676.92	<1.0	<1.0	<1.0	47.2
	10/16/2014	6.85	4,676.03	<1.0	<1.0	<1.0	7.0
	1/21/2015	6.90	4,675.98	<1.0	<1.0	<1.0	<1.0
	4/9/2015	6.02	4,676.86	<1.0	<1.0	<1.0	<1.0

TABLE 1 (Continued)

GROUNDWATER ANALYTICAL RESULTS
STATE 16-16I4 FLOW LINE
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.

Monitoring Well	Date	Depth to Water (feet btoc)	Groundwater Elevation * (feet AMSL)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
SB12	4/24/2014	6.40	4,682.72	<1.0	<1.0	<1.0	<1.0
	7/21/2014	6.02	4,676.32	<1.0	<1.0	<1.0	<1.0
	10/16/2014	6.80	4,676.70	<1.0	<1.0	<1.0	<1.0
	1/21/2015	6.82	4,675.92	<1.0	<1.0	<1.0	<1.0
	4/9/2015	5.89	4,675.90	<1.0	<1.0	<1.0	<1.0
SB13	10/16/2014	8.18	4,677.89	<1.0	<1.0	<1.0	<1.0
	1/21/2015	8.25	4,677.82	<1.0	<1.0	<1.0	<1.0
	4/9/2015	8.31	4,677.76	<1.0	<1.0	<1.0	<1.0
CDPHE WQCC Reg 41				5.0	560	700	1,400

NOTES:

AMSL - above mean sea level

btoc - below top of casing

µg/L - micrograms per liter

< - indicates result is less than the stated laboratory reporting limit

NM - not measured

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260C

BOLD indicates result exceeds the applicable standard

CDPHE WQCC Reg 41 - Colorado Department of Public Health and Environment-Water Quality Control Commission
 Regulation 41-The Basic Standards for Ground Water

* - groundwater elevations prior to the July 2014 monitoring event were relative to a 100-foot benchmark

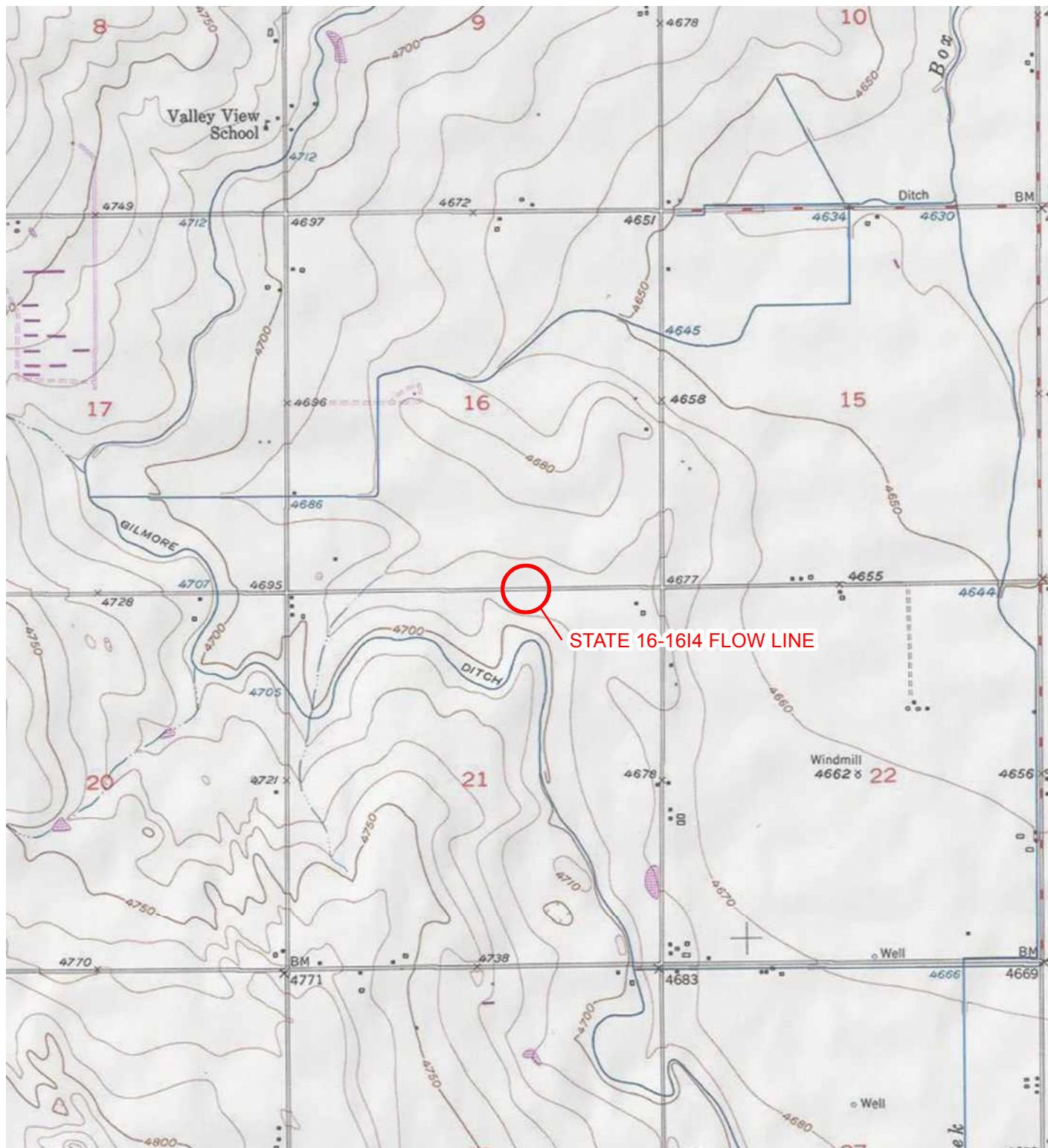


IMAGE COURTESY OF ESRI/USGS

LEGEND

○ SITE LOCATION

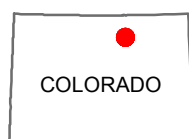
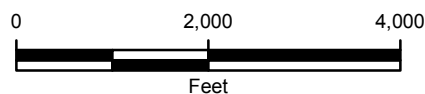


FIGURE 1
SITE LOCATION MAP
STATE 16-1614 FLOW LINE
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.





LEGEND

- MONITORING WELL
- CALCULATED GROUNDWATER FLOW DIRECTION
- FLOW LINE
- EXCAVATION EXTENT
- GROUNDWATER ELEVATION CONTOUR
CONTOUR INTERVAL = 0.50 FEET
GRADIENT = 0.012 FEET/FOOT

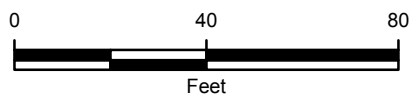


IMAGE COURTESY OF ESRI



FIGURE 2
GROUNDWATER ELEVATION MAP
STATE 16-1614 FLOW LINE
APRIL 9, 2015
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



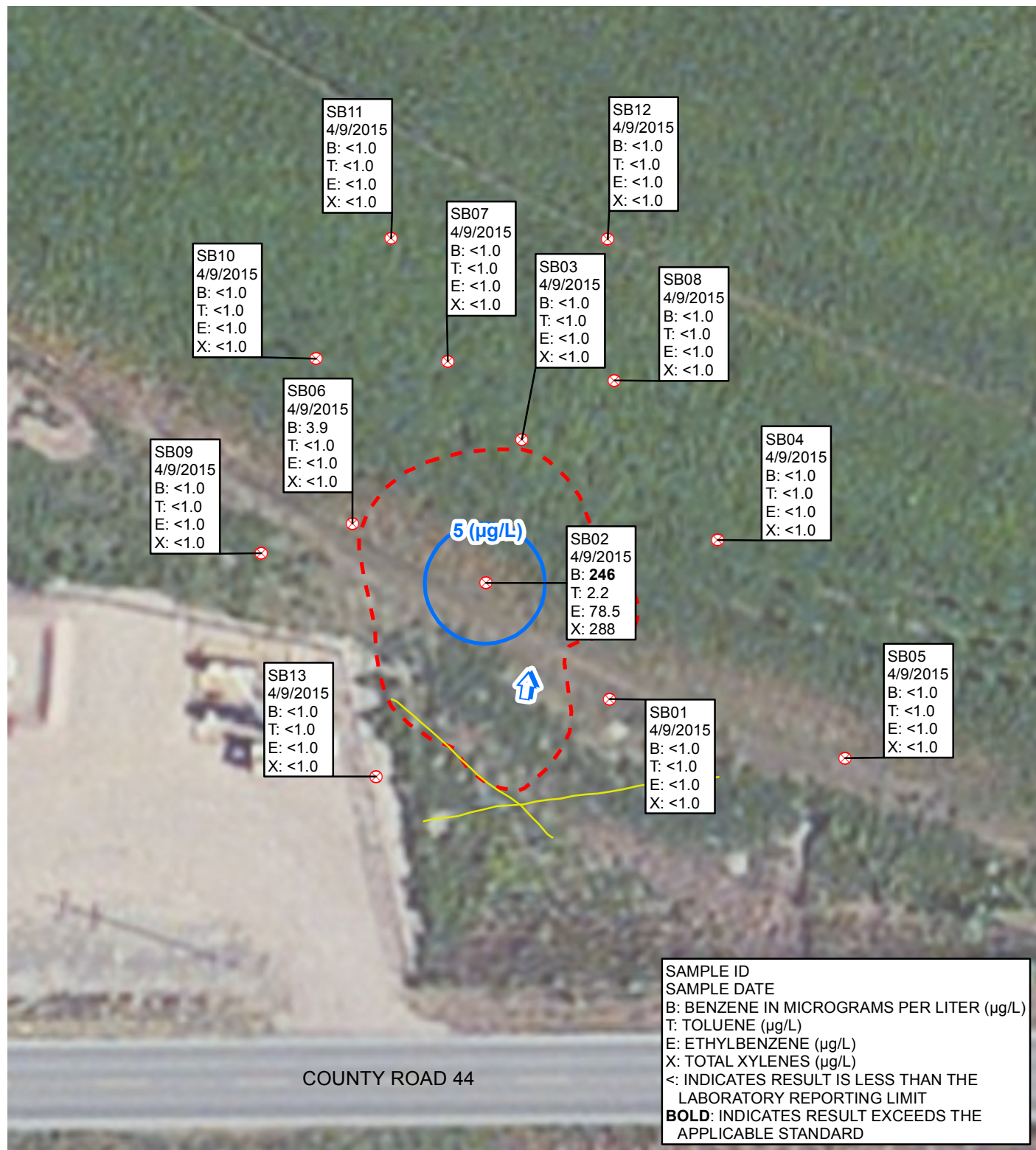


FIGURE 3
GROUNDWATER ANALYTICAL RESULTS
STATE 16-1614 FLOW LINE
APRIL 9, 2015
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.





April 14, 2015

LT Environmental, Inc.

Charles Greeson

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Noble - State 16-1614

Project Number - 008313110

Attached are your analytical results for Noble - State 16-1614 received by Origins Laboratory, Inc. April 09, 2015. This project is associated with Origins project number X504130-01.

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

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01	X504130-01	Water	April 9, 2015 9:00	04/09/2015 13:55
SB03	X504130-02	Water	April 9, 2015 9:10	04/09/2015 13:55
SB04	X504130-03	Water	April 9, 2015 9:20	04/09/2015 13:55
SB05	X504130-04	Water	April 9, 2015 9:30	04/09/2015 13:55
SB06	X504130-05	Water	April 9, 2015 9:40	04/09/2015 13:55
SB07	X504130-06	Water	April 9, 2015 9:50	04/09/2015 13:55
SB08	X504130-07	Water	April 9, 2015 10:00	04/09/2015 13:55
SB09	X504130-08	Water	April 9, 2015 10:10	04/09/2015 13:55
SB10	X504130-09	Water	April 9, 2015 10:20	04/09/2015 13:55
SB11	X504130-10	Water	April 9, 2015 10:30	04/09/2015 13:55

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.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB12	X504130-11	Water	April 9, 2015 10:40	04/09/2015 13:55
SB13	X504130-12	Water	April 9, 2015 10:50	04/09/2015 13:55
SB02	X504130-13	Water	April 9, 2015 11:00	04/09/2015 13:55

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

www.originslaboratory.com

xsou130

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ORIGINS
LABORATORY, INC

Client: LT Environmental
Address: 4600 W 60th Avenue
Arvada, CO 80003
Telephone Number: 303 433 9783
Email Address: C.greeson@ltenv.com

Project Manager: Chuck Greeson
Project Name: State 16-1614
Project Number: 008313110
Samples Collected By: B. Finn

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 ₃	Other	Groundwater	Soil	Air Summa #	Other	BTEX			
SB01	04/09/2015	0900	3	X				X						Lab Filter	1
SB03		0910													2
SB04		0920													3
SB05		0930													4
SB06		0940													5
SB07		0950													6
SB08		1000													7
SB09		1010													8
SB10		1020													9
SB11		1030													10
Relinquished By: <u>MBL</u>	Date: <u>04/09/2015</u>	Time: <u>1355</u>	Received By: <u>Kasey</u>	Date: <u>4.9.15</u>	Time: <u>1355</u>					Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/>					
Relinquished By:	Date:	Time:	Received By:	Date:	Time:										

Date Results Needed

Temp Received- 6.3

Origins Laboratory, Inc.

Jefe Pellegrini

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

www.originslaboratory.com

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ORIGINS LABORATORY, INC

XSQ130

Client: LT Environmental

Address: 4600 W. 60th Avenue
Arvada, CO 80003

Telephone Number: 303.433.9788

Email Address: cgreeson@ltenv.com

Project Manager: Chuck Greeson

Project Name: State 16-1614

Project Number: 008313110

Samples Collected By: B. Finn

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface Contactor #	Other		
SB12	04/09/2015	1040	3	X				X				BTEX	Lab Filter
SB13	↓	1050	↓	↓				↓				↓	↓
SB02	↓	1100	↓	↓									
Relinquished By: <u>[Signature]</u>	Date: <u>04/09/2015</u>	Time: <u>1355</u>	Received By: <u>[Signature]</u>	Date: <u>4.9.15</u>	Time: <u>1355</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard							
Relinquished By: <u>[Signature]</u>	Date: <u> </u>	Time: <u> </u>	Received By: <u> </u>	Date: <u> </u>	Time: <u> </u>								

1725 Elk Place

Denver, CO 80211

Phone: 303.433.1322

Fax: 303.265.9645

Temp Received: 6.3

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X504130 Client: LTE
Client Project ID: State 16-1614
Checklist Completed by: K. Rusin Shipped Via: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 4.9.15 @ 1355 Airbill #: _____
Matrix(s) Received: (Check all that apply): _____ Soil/Solid ☒ Water _____ Other: _____
(Describe)
Cooler Number/Temperature: 6.3 / _____ °C _____ / _____ °C _____ / _____ °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 ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>sampled same day</u>
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" 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"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			
Additional Comments (if any):				

⁽¹⁾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) [Signature] Date/Time Reviewed 4/10/15

Origins Laboratory, Inc.

[Signature]

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB01

4/9/2015 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504130-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"
Surrogate: Toluene-d8	99.4 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	91.7 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB03

4/9/2015 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X504130-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	87.3-113			"	"	"
Surrogate: Toluene-d8	102 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.8 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB04

4/9/2015 9:20:00AM

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

Origins Laboratory, Inc.
X504130-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	87.3-113			"	"	"
Surrogate: Toluene-d8	101 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	91.7 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB05

4/9/2015 9:30:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.
X504130-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"
Surrogate: Toluene-d8	99.8 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.3 %	88.6-111			"	"	"

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.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB06

4/9/2015 9:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X504130-05 (Water)

BTEX by EPA 8260C

Benzene	3.9	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	87.3-113			"	"	"
Surrogate: Toluene-d8	100 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	91.0 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB07

4/9/2015 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X504130-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"
Surrogate: Toluene-d8	102 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.7 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB08

4/9/2015 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504130-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"
Surrogate: Toluene-d8	101 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	91.3 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB09

4/9/2015 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504130-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"
Surrogate: Toluene-d8	101 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.2 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB10

4/9/2015 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504130-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	87.3-113			"	"	"
Surrogate: Toluene-d8	101 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	91.2 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB11

4/9/2015 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X504130-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"
Surrogate: Toluene-d8	101 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	92.0 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB12

4/9/2015 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504130-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	87.3-113			"	"	"
Surrogate: Toluene-d8	100 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	91.7 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB13

4/9/2015 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504130-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D10015	04/10/2015	04/13/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	87.3-113			"	"	"
Surrogate: Toluene-d8	99.9 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.2 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

SB02

4/9/2015 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504130-13 (Water)

BTEX by EPA 8260C

Benzene	246	10.0	ug/L	10	5D10015	04/10/2015	04/14/2015
Toluene	2.2	1.0	"	1	"	"	04/13/2015
Ethylbenzene	78.5	1.0	"	"	"	"	"
Xylenes, total	288	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"
Surrogate: Toluene-d8	101 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	92.7 %	88.6-111			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

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 5D10015 - EPA 5030B (Water)

Blank (5D10015-BLK1)

Prepared: 04/10/2015 Analyzed: 04/13/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	103		87.3-113			
Surrogate: Toluene-d8	62		"	62.5	99.7		90.9-108			
Surrogate: 4-Bromofluorobenzene	57		"	62.5	90.9		88.6-111			

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

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 5D10015 - EPA 5030B (Water)

LCS (5D10015-BS1)

Prepared: 04/10/2015 Analyzed: 04/13/2015

Benzene	49.9	1.0	ug/L	50.0		99.8	75-126			
Toluene	49.9	1.0	"	50.0		99.9	78.7-126			
Ethylbenzene	51.6	1.0	"	50.0		103	80-130			
m,p-Xylene	101	2.0	"	100		101	77.2-133			
o-Xylene	49.1	1.0	"	50.0		98.2	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.9	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.7	90.9-108			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.9	88.6-111			

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

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 5D10015 - EPA 5030B (Water)

Matrix Spike (5D10015-MS1)		Source: X504130-01			Prepared: 04/10/2015 Analyzed: 04/13/2015					
Benzene	47.8	1.0	ug/L	50.0	ND	95.7	74-130			
Toluene	50.2	1.0	"	50.0	ND	100	73-131			
Ethylbenzene	53.3	1.0	"	50.0	ND	107	76-132			
m,p-Xylene	105	2.0	"	100	ND	105	69-139			
o-Xylene	49.7	1.0	"	50.0	ND	99.4	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.4	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.3	88.6-111			

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Charles Greeson
Project Number: 008313110
Project: Noble - State 16-1614

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 5D10015 - EPA 5030B (Water)

Matrix Spike Dup (5D10015-MSD1)		Source: X504130-01			Prepared: 04/10/2015 Analyzed: 04/13/2015					
Benzene	48.0	1.0	ug/L	50.0	ND	96.1	74-130	0.438	20	
Toluene	50.0	1.0	"	50.0	ND	100	73-131	0.419	20	
Ethylbenzene	52.7	1.0	"	50.0	ND	105	76-132	1.19	20	
m,p-Xylene	103	2.0	"	100	ND	103	69-139	1.86	20	
o-Xylene	49.9	1.0	"	50.0	ND	99.8	74-131	0.382	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.8	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		101	90.9-108			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.0	88.6-111			

Origins Laboratory, Inc.



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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Charles Greeson

Project Number: 008313110

Project: Noble - State 16-1614

Notes and Definitions

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