

TABLE 1

**SOIL ANALYTICAL RESULTS
BRANTNER #1 FLOW LINE
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

Soil Sample	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
SB01@4'	4/10/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SB02@4'	4/10/2015	0.078	53	7.5	320	0.55	8,000	3,100	11,100
SB03@4'	4/10/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SB04@4'	4/10/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SB05@4'	4/10/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SB06@4'	4/10/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SB07@4'	4/10/2015	<0.0020	<0.0050	<0.0050	<0.010	<0.010	<50	<50	<100
SB08@4'	4/10/2015	<0.0020	0.0078	<0.0050	<0.010	<0.010	<50	<50	<100
SB09@4'	4/10/2015	<0.0020	0.014	<0.0050	<0.010	<0.010	<50	<50	<100
COGCC Table 910-1 Standard		0.17	85	100	175	23	--	--	500

NOTES:

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015

GRO - gasoline range organics analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons is the sum of GRO and DRO

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

-- - not applicable

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

TABLE 2

**GROUNDWATER ANALYTICAL RESULTS
BRANTNER #1 FLOW LINE
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

Monitoring Well	Date	Depth to Water (feet btoc)	Relative Groundwater Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
SB01	4/23/2015	5.59	89.95	<1.0	<1.0	<1.0	<1.0
SB02	4/23/2015	5.62	89.83	137	391	10.8	248
SB03	4/23/2015	5.80	90.01	<1.0	<1.0	<1.0	<1.0
SB04	4/23/2015	5.80	90.10	<1.0	<1.0	<1.0	<1.0
SB05	4/23/2015	5.68	90.05	<1.0	<1.0	<1.0	<1.0
SB06	4/23/2015	5.85	89.88	<1.0	<1.0	<1.0	<1.0
SB07	4/23/2015	5.41	89.85	1.7	1.4	<1.0	3.9
SB08	4/23/2015	5.32	89.79	<1.0	<1.0	<1.0	<1.0
SB09	4/23/2015	5.45	89.72	347	<1.0	15.3	54.6
CDPHE WQCC Reg 41				5.0	560	700	1,400

NOTES:

btoc - below top of casing

µg/L - micrograms per liter

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

BOLD indicates result exceeds the applicable standard

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

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

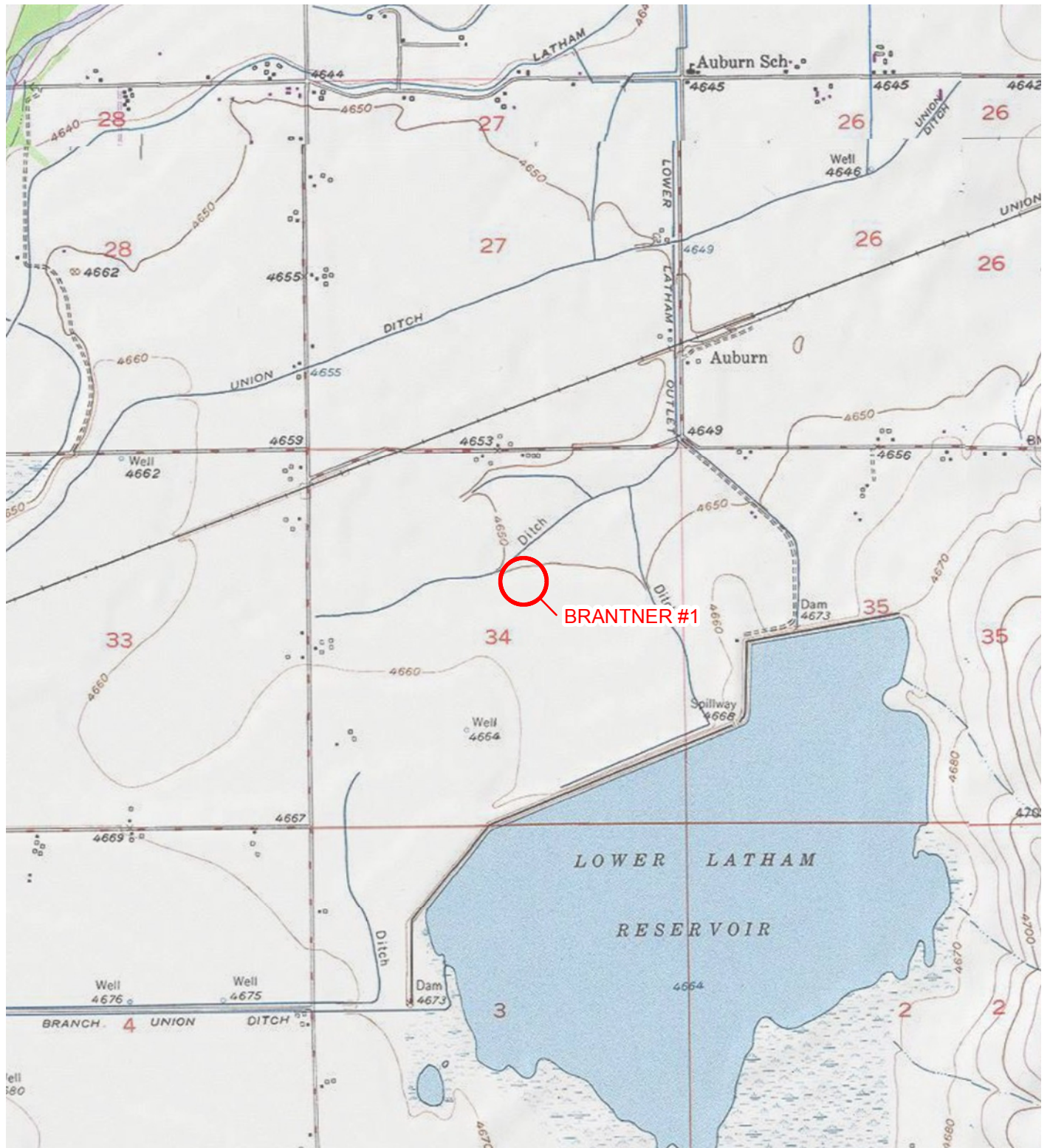


IMAGE COURTESY OF ESRI/USGS

LEGEND

○ SITE LOCATION

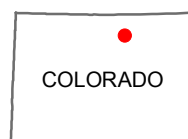
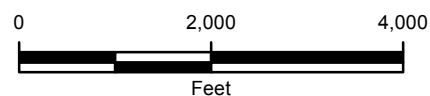


FIGURE 1
SITE LOCATION MAP
BRANTNER #1
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.





IMAGE COURTESY OF GOOGLE EARTH, 2014

LEGEND

- SOIL BORING
- ✕ RELEASE
- WELL HEAD
- [---] GROUNDWATER PLUME EXTENT
- [---] SOIL PLUME EXTENT

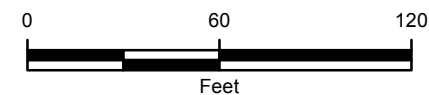


FIGURE 2
SITE MAP
BRANTNER #1
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.



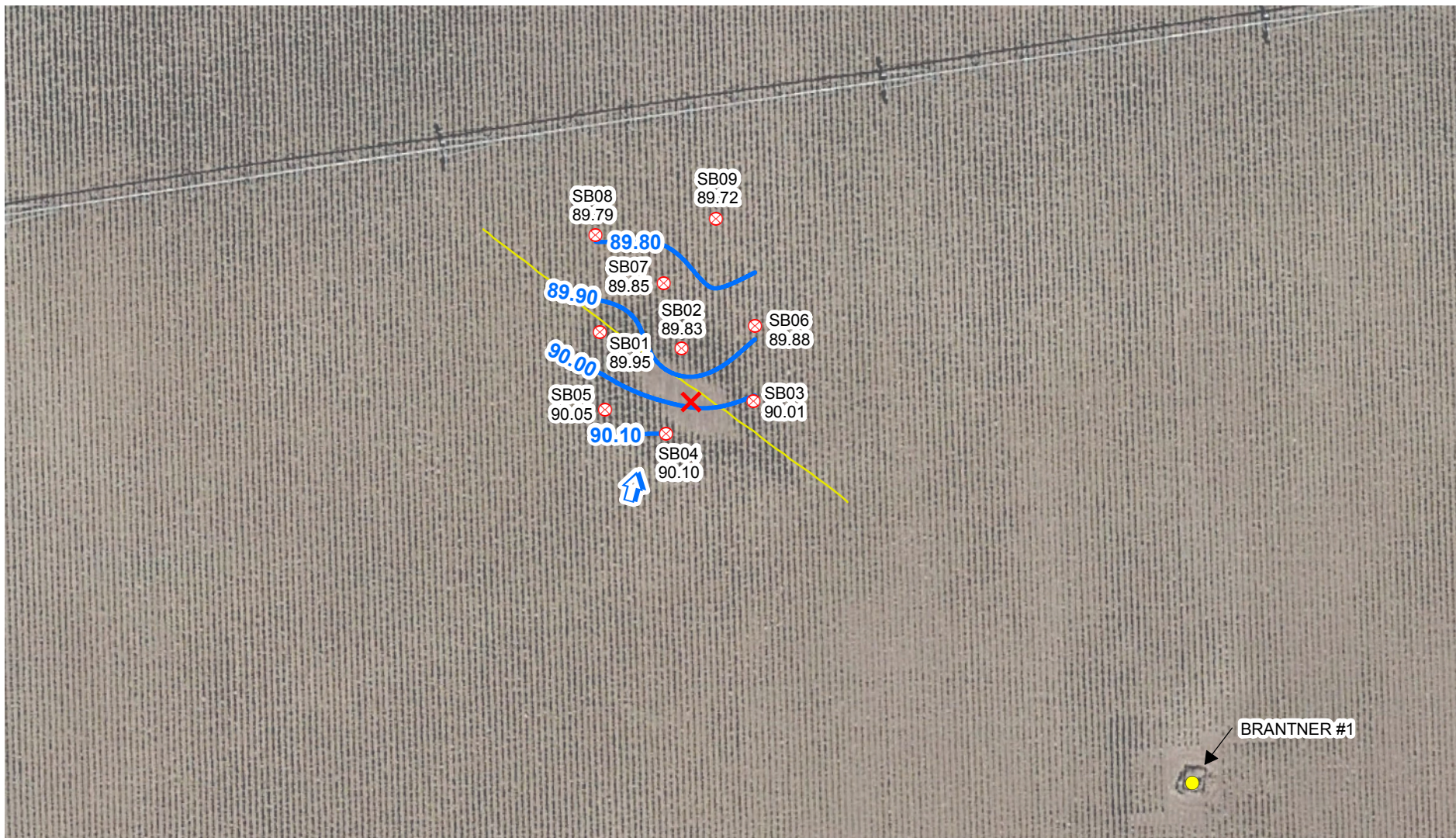








IMAGE COURTESY OF GOOGLE EARTH, 2014

LEGEND

-  MONITORING WELL
-  RELEASE
-  WELL HEAD
-  FLOW LINE
-  CALCULATED GROUNDWATER FLOW DIRECTION
-  RELATIVE GROUNDWATER ELEVATION CONTOUR
CONTOUR INTERVAL = 0.10 FEET
GRADIENT = 0.0038 FEET/FOOT

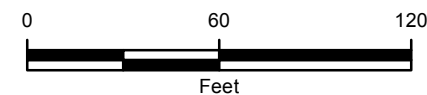
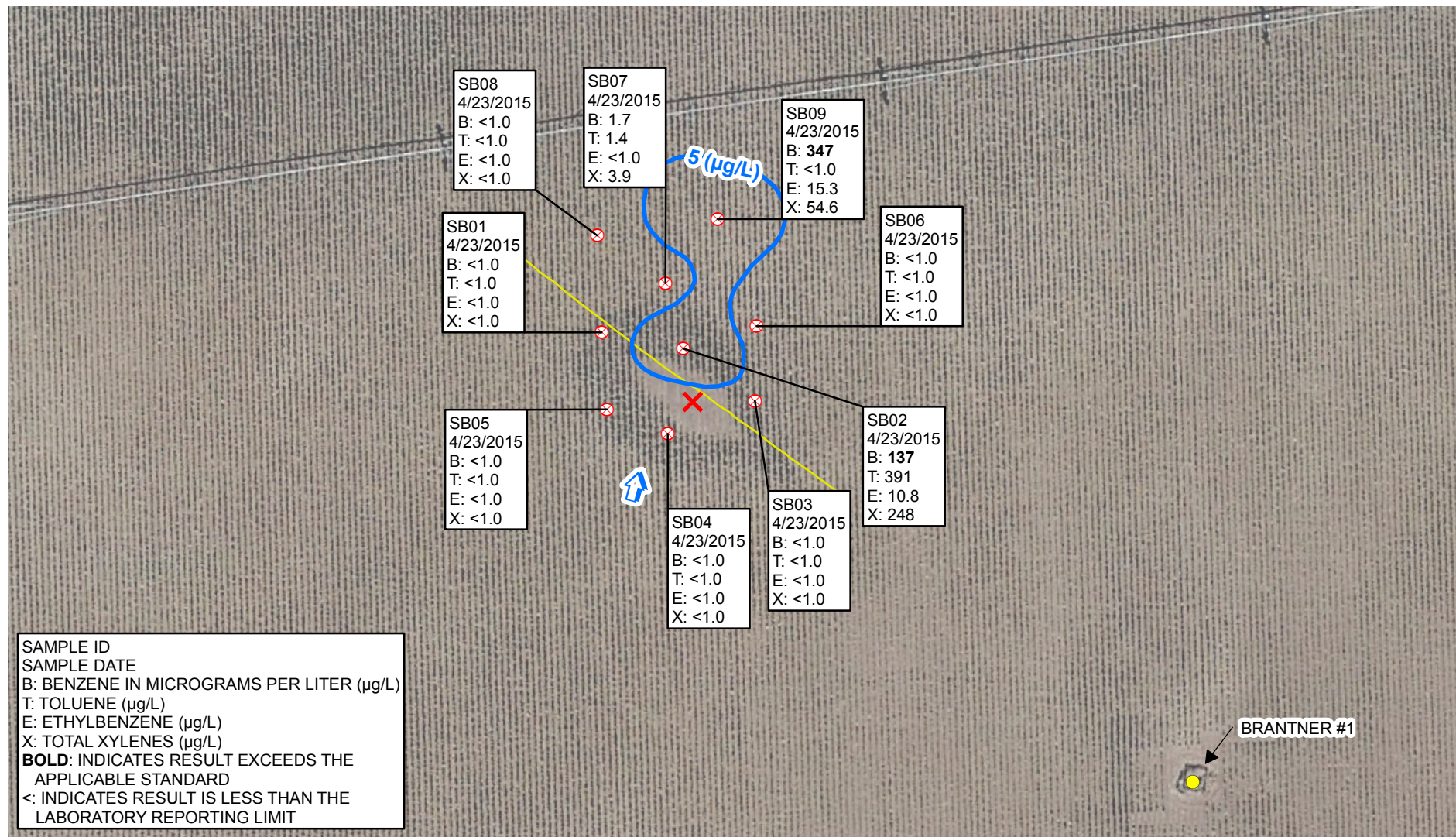


FIGURE 3
RELATIVE GROUNDWATER ELEVATION MAP
BRANTNER #1
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.





LEGEND

MONITORING WELL

RELEASE

WELL HEAD

CALCULATED GROUNDWATER FLOW DIRECTION

BENZENE ISOCONCENTRATION CONTOUR

FLOW LINE

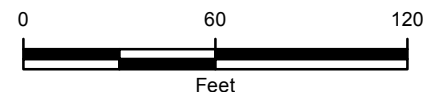
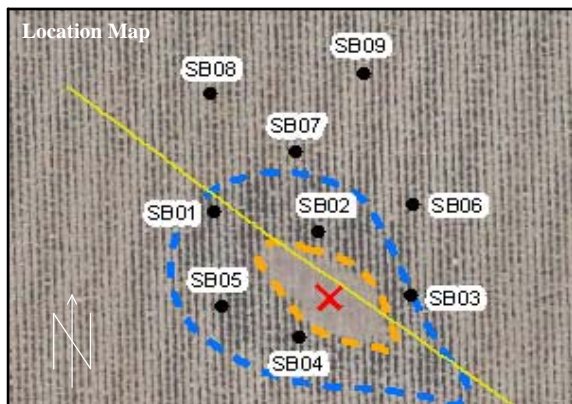


FIGURE 4
GROUNDWATER ANALYTICAL RESULTS
BRANTNER #1
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.





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LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

BORING/WELL NO.: SB01

DATE: 4/10/2015

LOGGED BY: Daniel Hosler

DRILL MTHD: Direct Push

PROJECT: Brantner #1

PROJECT NO.: 008315017

DRILLED BY: Site Services

SAMPLE MTHD: Continuous

DETECTOR: MiniRae 2000

GRAVEL PACK: 10-20 Silica Sand

CASING TYPE: SCH. 40 PVC

SCREEN TYPE: SCH. 40 PVC

HOLE DIA.: 2.25"

SEAL: Bent. Chips

CASING DIA.: 1"

SCREEN SLOT: 0.010"

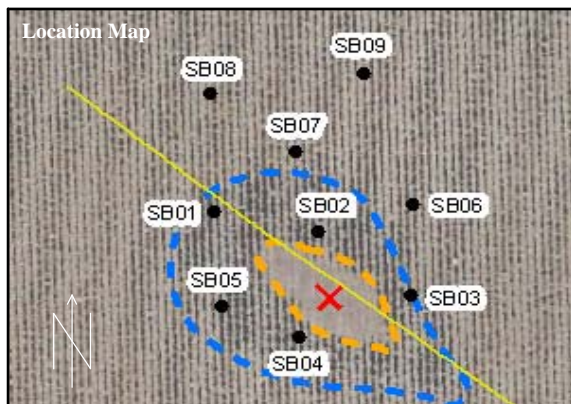
TD: 13' **DTW:** 5'

GROUT: NA

CASING LENGTH: 3'

SCREEN LENGTH: 10'

Vapor (ppm) 0.0 1000.0	Staining	Moisture Content	Sample	Sample Run (ft/ft)	Depth (ft. bgs.)	USCS	Soil Type Grain Size V F F M C V C	Lithology Description	Well Construction
0.0		Dry		3/5	0	SP		SP: Sand - 0'-13' - fine to medium grained, grain size variation at 5' to 13' bgs, little clay, medium brown, dry, wet at 5' bgs, poorly graded, no odor 2" clayey sand lense at 9' bgs	
0.0			SB01 @4'		5				
0.1				5/5					
0.0		Wet			10				
0.0				5/5					
0.0					15	SW		SW: Sand - 13'-15' - fine to coarse grained, medium brown, wet, well graded, no odor Well set at 13' total depth Flush Mount	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

BORING/WELL NO.: SB02

DATE: 4/10/2015

LOGGED BY: Daniel Hosler

DRILL MTHD: Direct Push

PROJECT: Branter #1

PROJECT NO.: 008315017

DRILLED BY: Site Services

SAMPLE MTHD: Continuous

DETECTOR: UltraRae 3000

GRAVEL PACK: 10-20 Silica Sand

CASING TYPE: SCH. 40 PVC

SCREEN TYPE: SCH. 40 PVC

HOLE DIA.: 2.25"

SEAL: Bent. Chips

CASING DIA.: 1"

SCREEN SLOT: 0.010"

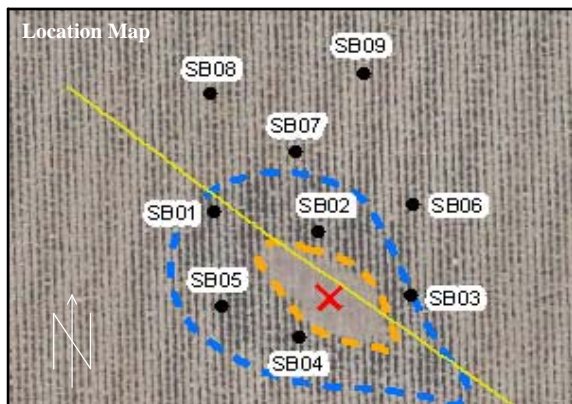
TD: 13' DTW: 5'

GROUT: NA

CASING LENGTH: 3'

SCREEN LENGTH: 10'

Vapor (ppm) 0.0 2500.0	Staining	Moisture Content	Sample	Sample Run (ft/ft)	Depth (ft. bgs.)	USCS	Soil Type Grain Size V F F M C V C	Lithology Description	Well Construction
		Dry	SB02 @ 4'	3/5	0	SP		SP: Sand - 0'-14' - fine to medium grained, fine grained to medium grained size variation at 5' to 14 ' bgs, medium brown, dry, wet at 5' bgs, poorly graded, no odor Slight gray-brown staining and odor at 4' to 8' bgs	
0.0	2,245								
330.9					5				
1,577				5/5					
1,634									
325.5					10				
36.5		Wet							
5.9				4/5					
3.3					15	SW		SW: Sand - 14'-15' - fine to coarse grained, medium brown, wet, well graded, no odor	
								Well set at 13' total depth Flush Mount	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

BORING/WELL NO.: SB03

DATE: 4/10/2015

LOGGED BY: Daniel Hosler

DRILL MTHD: Direct Push

PROJECT: Brantner #1

PROJECT NO.: 008315017

DRILLED BY: Site Services

SAMPLE MTHD: Continuous

DETECTOR: MiniRae 2000

GRAVEL PACK: 10-20 Silica Sand

CASING TYPE: SCH. 40 PVC

SCREEN TYPE: SCH. 40 PVC

HOLE DIA.: 2.25"

SEAL: Bent. Chips

CASING DIA.: 1"

SCREEN SLOT: 0.010"

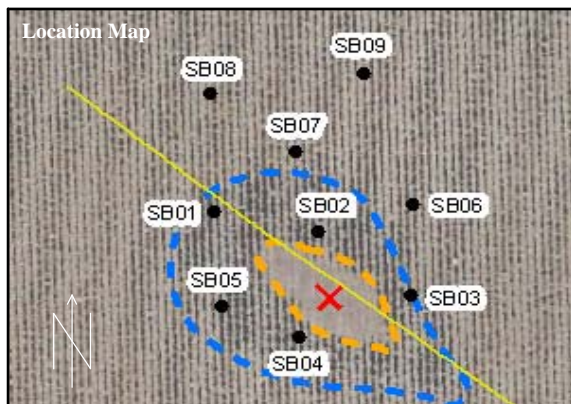
TD: 13' **DTW:** 5'

GROUT: NA

CASING LENGTH: 3'

SCREEN LENGTH: 10'

Vapor (ppm) 0.0 1000.0	Staining	Moisture Content	Sample	Sample Run (ft/ft)	Depth (ft. bgs.)	USCS	Soil Type Grain Size V F F M C V C	Lithology Description	Well Construction
0.0		Dry		3/5	0	SP		SP: Sand - 0'-14' - fine to medium grained, grain size variation at 5' to 14' bgs, medium brown, dry, wet at 5' bgs, poorly graded, no odor 2" fine to coarse grained sand lense at 7' bgs 2" clayey sand lense at 9' bgs	
0.0			SB03 @ 4'		5				
5.3				5/5					
2.8		Wet			10				
0.0				5/5					
0.0					15	SW		SW: Sand - 14'-15' - fine to coarse grained, medium brown, wet, well graded, no odor	
								Well set at 13' total depth Flush Mount	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

BORING/WELL NO.: SB04
DATE: 4/10/2015
LOGGED BY: Daniel Hosler
DRILL MTHD: Direct Push

PROJECT: Brantner #1
PROJECT NO.: 008315017
DRILLED BY: Site Services
SAMPLE MTHD: Continuous

DETECTOR: MiniRae 2000

GRAVEL PACK: 10-20 Silica Sand

CASING TYPE: SCH. 40 PVC

SCREEN TYPE: SCH. 40 PVC

HOLE DIA.: 2.25"

SEAL: Bent. Chips

CASING DIA.: 1"

SCREEN SLOT: 0.010"

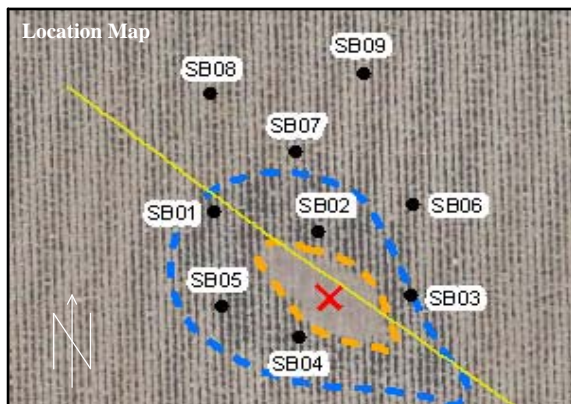
TD: 13' **DTW:** 5'

GROUT: NA

CASING LENGTH: 3'

SCREEN LENGTH: 10'

Vapor (ppm) 0.0 1000.0	Staining	Moisture Content	Sample	Sample Run (ft/ft)	Depth (ft. bgs.)	USCS	Soil Type Grain Size VF F M C VC	Lithology Description	Well Construction
0.0		Dry		3/5	0	SP		SC: Sand - 0'-1' - fine grained, some clay, medium brown, dry, no odor	
0.0			SB04 @ 4'		5			SP: Sand - 1'-14' - fine to medium grained, grain size variation at 5' to 14' bgs, medium brown, dry, wet at 5' bgs, poorly graded, no odor	
0.6				4/5					
0.3		Wet			10				
0.0				4/5					
0.0					15	SW		SW: Sand - 14'-15' - fine to coarse grained, medium brown, wet, well graded, no odor	
								Well set at 13' total depth Flush Mount	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

BORING/WELL NO.: SB05
DATE: 4/10/2015
LOGGED BY: Daniel Hosler
DRILL MTHD: Direct Push

PROJECT: Brantner #1
PROJECT NO.: 008315017
DRILLED BY: Site Services
SAMPLE MTHD: Continuous

DETECTOR: MiniRae 2000

GRAVEL PACK: 10-20 Silica Sand

CASING TYPE: SCH. 40 PVC

SCREEN TYPE: SCH. 40 PVC

HOLE DIA.: 2.25"

SEAL: Bent. Chips

CASING DIA.: 1"

SCREEN SLOT: 0.010"

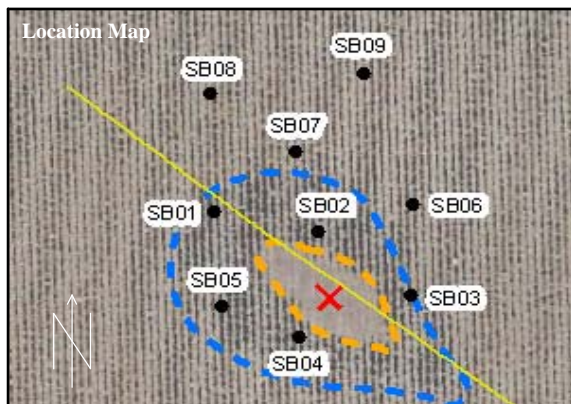
TD: 13' **DTW:** 5'

GROUT: NA

CASING LENGTH: 3'

SCREEN LENGTH: 10'

Vapor (ppm) 0.0 1000.0	Staining	Moisture Content	Sample	Sample Run (ft/ft)	Depth (ft. bgs.)	USCS	Soil Type Grain Size VF F M C VC	Lithology Description	Well Construction
0.0		Moist			0	SC		SC: Sand - 0'-3' - fine grained, clayey, light brown, moist, no odor	
0.0		Dry	SB05 @ 4'		1/5	SP		SP: Sand - 3'-14' - fine to medium grained, grain size variation at 5' to 14' bgs, medium brown, dry, wet at 5' bgs, poorly graded, no odor	
0.0					5				
0.0					4/5				
0.0		Wet			10				
0.0					5/5				
0.0					15	SW		SW: Sand - 14'-15' - fine to coarse grained, medium brown, wet, well graded, no odor	
								Well set at 13' total depth Flush Mount	



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Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

BORING/WELL NO.: SB06

DATE: 4/10/2015

LOGGED BY: Daniel Hosler

DRILL MTHD: Direct Push

PROJECT: Brantner #1

PROJECT NO.: 008315017

DRILLED BY: Site Services

SAMPLE MTHD: Continuous

DETECTOR: MiniRae 2000

GRAVEL PACK: 10-20 Silica Sand

CASING TYPE: SCH. 40 PVC

SCREEN TYPE: SCH. 40 PVC

HOLE DIA.: 2.25"

SEAL: Bent. Chips

CASING DIA.: 1"

SCREEN SLOT: 0.010"

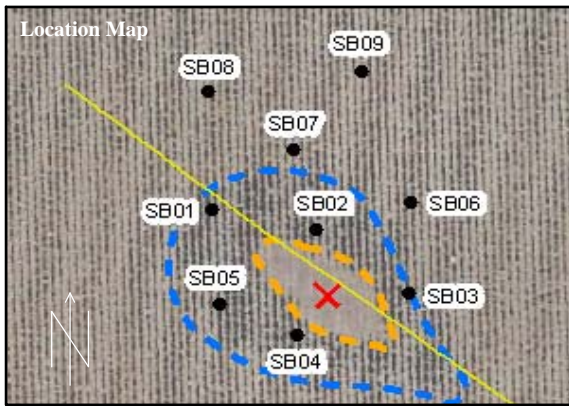
TD: 13' **DTW:** 5'

GROUT: NA

CASING LENGTH: 3'

SCREEN LENGTH: 10'

Vapor (ppm) 0.0 1000.0	Staining	Moisture Content	Sample	Sample Run (ft/ft)	Depth (ft. bgs.)	USCS	Soil Type Grain Size VF F M C VC	Lithology Description	Well Construction
0.0		Dry		3/5	0	SC		SC: Sand - 0'-1' - fine grained, clayey, dark brown, dry, no odor	
0.0			SB06 @ 4'		5	SP		SP: Sand - 1'-14' - fine to medium grained, grain size variation at 5' to 14' bgs, medium brown, dry, wet at 5' bgs, poorly graded, no odor	
0.7				4/5					
0.2		Wet			10				
0.0				5/5					
0.0					15	SW		SW: Sand - 14'-15' - fine to coarse grained, medium brown, wet, well graded, no odor	
								Well set at 13' total depth Flush Mount	



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 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

BORING/WELL NO.: SB07
DATE: 4/10/2015
LOGGED BY: Daniel Hosler
DRILL MTHD: Direct Push

PROJECT: Brantner #1
PROJECT NO.: 008315017
DRILLED BY: Site Services
SAMPLE MTHD: Continuous

DETECTOR: MiniRae 2000

GRAVEL PACK: 10-20 Silica Sand

CASING TYPE: SCH. 40 PVC

SCREEN TYPE: SCH. 40 PVC

HOLE DIA.: 2.25"

SEAL: Bent. Chips

CASING DIA.: 1"

SCREEN SLOT: 0.010"

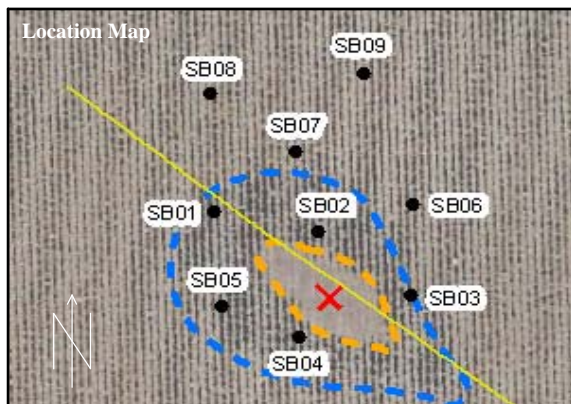
TD: 13' **DTW:** 5'

GROUT: NA

CASING LENGTH: 3'

SCREEN LENGTH: 10'

Vapor (ppm) 0.0 1000.0	Staining	Moisture Content	Sample	Sample Run (ft/ft)	Depth (ft. bgs.)	USCS	Soil Type Grain Size VF F M C VC	Lithology Description	Well Construction
0.0		Dry		3/5	0	SP		SP: Sand - 0'-14' - fine to medium grained, grain size variation at 5' to 13' bgs, medium brown, dry, wet at 5' bgs, poorly graded, staining at 5' to 7', no odor	
0.0			SB07 @ 4'		5				
78.7				4/5					
44.5									
1.2		Wet			10				
0.0				4/5					
0.0					15	SW		SW: Sand - 14'-15' - fine to coarse grained, medium brown, wet, well graded, no odor	
								Well set at 13' total depth Flush Mount	



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4600 W. 60th Avenue

Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

BORING/WELL NO.: SB08

DATE: 4/10/2015

LOGGED BY: Daniel Hosler

DRILL MTHD: Direct Push

PROJECT: Brantner #1

PROJECT NO.: 008315017

DRILLED BY: Site Services

SAMPLE MTHD: Continuous

DETECTOR: MiniRae 2000

GRAVEL PACK: 10-20 Silica Sand

CASING TYPE: SCH. 40 PVC

SCREEN TYPE: SCH. 40 PVC

HOLE DIA.: 2.25"

SEAL: Bent. Chips

CASING DIA.: 1"

SCREEN SLOT: 0.010"

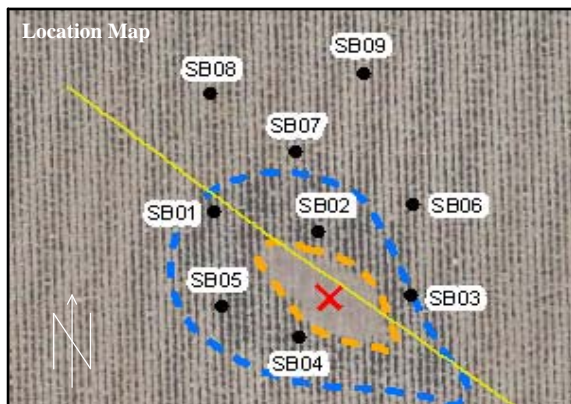
TD: 13' **DTW:** 5'

GROUT: NA

CASING LENGTH: 3'

SCREEN LENGTH: 10'

Vapor (ppm) 0.0 1000.0	Staining	Moisture Content	Sample	Sample Run (ft/ft)	Depth (ft. bgs.)	USCS	Soil Type Grain Size V F F M C V C	Lithology Description	Well Construction
0.0		Dry		3/5	0	SP		SP: Sand - 0'-14' - fine to medium grained, grain size variation at 5' to 14' bgs, medium brown, dry, wet at 5' bgs, poorly graded, no odor	
0.0			SB08 @ 4'		5				
0.0				4/5					
0.0		Wet			10				
0.0				4/5					
0.0					15	SW		SW: Sand - 14'-15' - fine to coarse grained, medium brown, wet, well graded, no odor	
								Well set at 13' total depth Flush Mount	



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LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

BORING/WELL NO.: SB09
DATE: 4/10/2015
LOGGED BY: Daniel Hosler
DRILL MTHD: Direct Push

PROJECT: Brantner #1
PROJECT NO.: 008315017
DRILLED BY: Site Services
SAMPLE MTHD: Continuous

DETECTOR: MiniRae 2000

GRAVEL PACK: 10-20 Silica Sand

CASING TYPE: SCH. 40 PVC

SCREEN TYPE: SCH. 40 PVC

HOLE DIA.: 2.25"

SEAL: Bent. Chips

CASING DIA.: 1"

SCREEN SLOT: 0.010"

TD: 13' **DTW:** 5'

GROUT: NA

CASING LENGTH: 3'

SCREEN LENGTH: 10'

Vapor (ppm) 0.0 1000.0	Staining	Moisture Content	Sample	Sample Run (ft/ft)	Depth (ft. bgs.)	USCS	Soil Type Grain Size VF F M C VC	Lithology Description	Well Construction
0.0		Dry			0	SP		SP: Sand - 0'-2' - fine grained, dark brown, dry, poorly graded, no odor	
0.0		Moist	SB09 @ 4'	2/5	2.5	SC		SC: Sand - 2'-10' - fine grained, clayey, light brown, moist, wet at 5' bgs, no odor	
36.3				3/5	5				
18.6		Wet			10	SW		SW: Sand - 10'-15' - fine to coarse grained, medium brown, wet, well graded, no odor	
0.0				3/5					
0.0					15			Well set at 13' total depth Flush Mount	

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 16, 2015

Chris Roy
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: NEP - Branter #1

Enclosed are the results of analyses for samples received by Summit Scientific on 04/10/15 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@4'	1504132-01	Soil	04/10/15 09:00	04/10/15 16:30
SB02@4'	1504132-02	Soil	04/10/15 09:30	04/10/15 16:30
SB03@4'	1504132-03	Soil	04/10/15 10:00	04/10/15 16:30
SB04@4'	1504132-04	Soil	04/10/15 10:30	04/10/15 16:30
SB05@4'	1504132-05	Soil	04/10/15 12:00	04/10/15 16:30
SB06@4'	1504132-06	Soil	04/10/15 12:30	04/10/15 16:30
SB07@4'	1504132-07	Soil	04/10/15 12:30	04/10/15 16:30
SB08@4'	1504132-08	Soil	04/10/15 13:00	04/10/15 16:30
SB09@4'	1504132-09	Soil	04/10/15 13:30	04/10/15 16:30

Summit Scientific

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

Project: NEP - Branter #1
Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

Summit Scientific

1504132

741 Corporate Circle, Suite J&K • Golden, Colorado 80401
303-277-9310 • 303-374-5933

Page 1 of 1

Client: LT Environmental, Inc. Project Manager: Chris Roy
Address: 4600 West 60th Ave E-Mail: chris.roy@ltenv.com
City/State/Zip: Arvada, CO 80003
Phone: 303-433-9788 Fax: 303-433-1432 Project Name: Branter #1
Sampler Name: LTSLR Project Number: 0083-15017

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	137EX	137EX	137EX	137EX	
1	SR0104	4/10/15	0800	1						X							
2	SR0204		0930	1													
3	SR0304		1030	1													
4	SR0404		1130	1													
5	SR0504		1200	1													
6	SR0604		1230	1													
7	SR0704		1230	1													
8	SR0804		1300	1													
9	SR0904		1330	1													
10																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/10/15 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/10/15 1630</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/10/15 1730</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4-10 1730</u>	Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/10/15 1730</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4-10 1730</u>	24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/>	
Sample Integrity:				Temperature Upon Receipt: <u>23.6C</u>	
Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

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

Project: NEP - Branter #1
Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

Sample Receipt Checklist

S2 Work Order: 1504132

Client: LT

Client Project ID: Branter #1

Shipped Via: pu

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

Matrix (check all that apply): Air 9 Soil/Solid Water Other: _____
(Describe)

Cooler ID					
Temp (°C)	<u>23.6</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, etc.			<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Ban Shewsbury
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

4/13/15 2009
Date/Time



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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

SB01@4'
1504132-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/15 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504128	04/13/15	04/13/15	8015M	

Date Sampled: **04/10/15 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		121 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/15 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504127	04/13/15	04/14/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/15 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

Summit Scientific

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

SB02@4'
1504132-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/15 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	3100	50	mg/kg	1	1504128	04/13/15	04/13/15	8015M	

Date Sampled: **04/10/15 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.3 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/15 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.55	0.010	mg/kg	1	1504127	04/13/15	04/14/15	EPA 8260B	
Benzene	0.078	0.0020	"	"	"	"	"	"	
Toluene	53	5.0	"	1000	"	"	04/14/15	"	
Ethylbenzene	7.5	0.050	"	10	"	"	"	"	
Xylenes (total)	320	10	"	1000	"	"	"	"	
Gasoline Range Hydrocarbons	8000	500	"	"	"	"	"	"	

Date Sampled: **04/10/15 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.5 %	23-173		"	"	04/14/15	"	
Surrogate: Toluene-d8		92.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	21-167		"	"	"	"	

Summit Scientific

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

SB03@4'
1504132-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/15 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504128	04/13/15	04/13/15	8015M	

Date Sampled: **04/10/15 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/15 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504127	04/13/15	04/14/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/15 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	21-167		"	"	"	"	

Summit Scientific

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

SB04@4'
1504132-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504128	04/13/15	04/13/15	8015M	

Date Sampled: **04/10/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		110 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504127	04/13/15	04/14/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	21-167		"	"	"	"	

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

SB05@4'
1504132-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/15 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504128	04/13/15	04/13/15	8015M	

Date Sampled: **04/10/15 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		117 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/15 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504127	04/13/15	04/14/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/15 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

Summit Scientific

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

SB06@4'
1504132-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/15 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504128	04/13/15	04/13/15	8015M	

Date Sampled: **04/10/15 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/15 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504127	04/13/15	04/14/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/15 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

Summit Scientific

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

SB07@4'
1504132-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/15 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504128	04/13/15	04/13/15	8015M	

Date Sampled: **04/10/15 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/15 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504127	04/13/15	04/14/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/15 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

SB08@4'
1504132-08 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/15 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504128	04/13/15	04/13/15	8015M	

Date Sampled: **04/10/15 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		116 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/15 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504127	04/13/15	04/14/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	0.0078	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/15 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

Summit Scientific

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

SB09@4'
1504132-09 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/10/15 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504128	04/13/15	04/13/15	8015M	

Date Sampled: **04/10/15 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		117 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/10/15 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504127	04/13/15	04/14/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	0.014	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/15 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Summit Scientific

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

Project: NEP - Branter #1
Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1504128 - EPA 3550A

Blank (1504128-BLK1)

Prepared & Analyzed: 04/13/15

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.8 " 12.2 105 30-150

LCS (1504128-BS1)

Prepared & Analyzed: 04/13/15

C10-C28 (DRO) 506 50 mg/kg 501 101 73-134

Surrogate: o-Terphenyl 13.7 " 12.2 113 30-150

Matrix Spike (1504128-MS1)

Source: 1504137-01

Prepared & Analyzed: 04/13/15

C10-C28 (DRO) 492 50 mg/kg 485 47.9 91.5 50-148

Surrogate: o-Terphenyl 12.9 " 11.8 110 30-150

Matrix Spike Dup (1504128-MSD1)

Source: 1504137-01

Prepared & Analyzed: 04/13/15

C10-C28 (DRO) 486 50 mg/kg 482 47.9 91.0 50-148 1.20 13

Surrogate: o-Terphenyl 12.7 " 11.7 108 30-150

Summit Scientific

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

Project: NEP - Branter #1
Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1504127 - EPA 5030 Soil MS

Blank (1504127-BLK1)

Prepared & Analyzed: 04/13/15

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0400</i>		<i>"</i>	<i>0.0396</i>		<i>101</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>21-167</i>			

LCS (1504127-BS1)

Prepared & Analyzed: 04/13/15

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0770	0.0020	"	0.100		77.0	58-130			
Toluene	0.0891	0.0050	"	0.100		89.1	61-134			
Ethylbenzene	0.0940	0.0050	"	0.0992		94.7	74-139			
m,p-Xylene	0.193	0.010	"	0.200		96.6	73-137			
o-Xylene	0.0989	0.0050	"	0.0984		101	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0386</i>		<i>"</i>	<i>0.0396</i>		<i>97.4</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>21-167</i>			

Matrix Spike (1504127-MS1)

Source: 1504137-01

Prepared & Analyzed: 04/13/15

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0734	0.0020	"	0.0947	ND	77.5	30-131			
Toluene	0.0835	0.0050	"	0.0947	ND	88.2	30-134			
Ethylbenzene	0.0877	0.0050	"	0.0939	ND	93.4	22-153			
m,p-Xylene	0.180	0.010	"	0.189	ND	95.1	10-159			
o-Xylene	0.0929	0.0050	"	0.0932	ND	99.7	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0399</i>		<i>"</i>	<i>0.0375</i>		<i>106</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0374</i>		<i>"</i>	<i>0.0379</i>		<i>98.8</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0384</i>		<i>"</i>	<i>0.0379</i>		<i>101</i>	<i>21-167</i>			

Summit Scientific

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1504127 - EPA 5030 Soil MS

Matrix Spike Dup (1504127-MSD1)			Source: 1504137-01		Prepared & Analyzed: 04/13/15					
Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.0759	0.0020	"	0.0952	ND	79.7	30-131	3.36	34	
Toluene	0.0877	0.0050	"	0.0952	ND	92.1	30-134	4.93	30	
Ethylbenzene	0.0905	0.0050	"	0.0945	ND	95.8	22-153	3.19	24	
m,p-Xylene	0.186	0.010	"	0.190	ND	98.0	10-159	3.61	68	
o-Xylene	0.0968	0.0050	"	0.0937	ND	103	31-151	4.08	38	
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0377		111	23-173			
Surrogate: Toluene-d8	0.0374		"	0.0381		98.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0381		102	21-167			

Summit Scientific

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

Project: NEP - Branter #1

Project Number: 0083-15017
Project Manager: Chris Roy

Reported:
04/16/15 09:11

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

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.

A handwritten signature in black ink, appearing to be 'MSM'.



April 27, 2015

LT Environmental, Inc.

Charles Greeson

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Noble - Branter #1

Project Number - 008315017

Attached are your analytical results for Noble - Branter #1 received by Origins Laboratory, Inc. April 23, 2015. This project is associated with Origins project number X504273-01.

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: 008315017
Project: Noble - Branter #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01	X504273-01	Water	April 23, 2015 12:20	04/23/2015 14:00
SB02	X504273-02	Water	April 23, 2015 12:48	04/23/2015 14:00
SB03	X504273-03	Water	April 23, 2015 11:49	04/23/2015 14:00
SB04	X504273-04	Water	April 23, 2015 12:02	04/23/2015 14:00
SB05	X504273-05	Water	April 23, 2015 12:10	04/23/2015 14:00
SB06	X504273-06	Water	April 23, 2015 11:32	04/23/2015 14:00
SB07	X504273-07	Water	April 23, 2015 11:10	04/23/2015 14:00
SB08	X504273-08	Water	April 23, 2015 12:30	04/23/2015 14:00
SB09	X504273-09	Water	April 23, 2015 10:50	04/23/2015 14:00

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.

Charles Greeson
Project Number: 008315017
Project: Noble - Branter #1

ORIGINS

LABORATORY, INC

www.originslaboratory.com

XS04273

page 1 of 1

Client: LT ENVIRONMENTAL

Project Manager: CHUCK GREENE

Address: 4600 W 60th AVENUE



Project Name: FRANKLIN #1
pp 4/23/15

Project Number: 00835017

Telephone Number: _____

Samples Collected By: GLENN THOMPSON

Email Address: GREENE@LTENV.COM

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other				
S801	4/23/15	1230	3	✓				✓				BREX			INVOICE Jacob
S802		1248	1												2
S803		1149													3
S804		1202													4
S805		1210													5
S806		1132													6
S807		1110													7
S808		1230													8
S809		1050													9
															10
Relinquished By: 	Date: 4/23/15	Time: 1400		Received By: 				Date: 4/23/15	Time: 1400	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>					
Relinquished By:	Date:	Time:		Received By:				Date: 4/23/15	Time: 1400						

Temp Received: 12.9

Date Results Needed Monday Morning

Origins Laboratory, Inc.

Jeff Pellipini

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: 008315017
Project: Noble - Branter #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X504273

Client: LTE

Client Project ID: Branter #1

Checklist Completed by: Jen Pellegrini

Shipped Via: H/D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/23/15

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☐ Soil/Solid ☒ Water ☐ Other: _____

Cooler Number/Temperature: 1 129 °C 1 °C 1 °C (Describe)

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⁾ ?		X		sampled same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		X		
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)		X		
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.

Jen Pellegrini
Reviewed by (Project Manager)

4/23/15
Date/Time Reviewed

Origins Laboratory, Inc.

Jen 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.

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

Charles Greeson
Project Number: 008315017
Project: Noble - Branter #1

SB01

4/23/2015 12:20:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.
X504273-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D23017	04/23/2015	04/24/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %	87.3-113			"	"	"
Surrogate: Toluene-d8	100 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.1 %	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: 008315017
Project: Noble - Branter #1

SB02

4/23/2015 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504273-02 (Water)

BTEX by EPA 8260C

Benzene	137	4.0	ug/L	4	5D23017	04/23/2015	04/24/2015
Toluene	391	4.0	"	"	"	"	"
Ethylbenzene	10.8	4.0	"	"	"	"	"
Xylenes, total	248	4.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %	87.3-113			"	"	04/24/2015
Surrogate: Toluene-d8	102 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.7 %	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: 008315017
Project: Noble - Branter #1

SB03

4/23/2015 11:49:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504273-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D23017	04/23/2015	04/24/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	87.3-113			"	"	"
Surrogate: Toluene-d8	99.0 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.4 %	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: 008315017
Project: Noble - Branter #1

SB04

4/23/2015 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504273-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D23017	04/23/2015	04/24/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	87.3-113			"	"	"
Surrogate: Toluene-d8	99.5 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	91.0 %	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: 008315017
Project: Noble - Branter #1

SB05

4/23/2015 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504273-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D23017	04/23/2015	04/24/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %	87.3-113			"	"	"
Surrogate: Toluene-d8	101 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	89.3 %	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: 008315017
Project: Noble - Branter #1

SB06**4/23/2015 11:32:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504273-06 (Water)**BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	5D23017	04/23/2015	04/24/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	87.3-113			"	"	"
Surrogate: Toluene-d8	100 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	91.3 %	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: 008315017
Project: Noble - Branter #1

SB07

4/23/2015 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504273-07 (Water)

BTEX by EPA 8260C

Benzene	1.7	1.0	ug/L	1	5D23017	04/23/2015	04/24/2015
Toluene	1.4	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	3.9	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	87.3-113			"	"	"
Surrogate: Toluene-d8	100 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.1 %	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: 008315017
Project: Noble - Branter #1

SB08

4/23/2015 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504273-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5D23017	04/23/2015	04/24/2015
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	87.3-113			"	"	"
Surrogate: Toluene-d8	99.1 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	90.6 %	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: 008315017
Project: Noble - Branter #1

SB09

4/23/2015 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504273-09 (Water)

BTEX by EPA 8260C

Benzene	347	10.0	ug/L	10	5D23017	04/23/2015	04/24/2015
Toluene	ND	1.0	"	1	"	"	04/24/2015
Ethylbenzene	15.3	1.0	"	"	"	"	"
Xylenes, total	54.6	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	87.3-113			"	"	"
Surrogate: Toluene-d8	99.8 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	89.2 %	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: 008315017
Project: Noble - Branter #1

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 5D23017 - EPA 5030B (Water)

Blank (5D23017-BLK1)

Prepared: 04/23/2015 Analyzed: 04/23/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	108		87.3-113			
Surrogate: Toluene-d8	63		"	62.5	100		90.9-108			
Surrogate: 4-Bromofluorobenzene	56		"	62.5	90.2		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: 008315017
Project: Noble - Branter #1

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 5D23017 - EPA 5030B (Water)

LCS (5D23017-BS1)

Prepared: 04/23/2015 Analyzed: 04/23/2015

Benzene	46.4	1.0	ug/L	50.0		92.8	75-126			
Toluene	48.8	1.0	"	50.0		97.5	78.7-126			
Ethylbenzene	51.6	1.0	"	50.0		103	80-130			
m,p-Xylene	103	2.0	"	100		103	77.2-133			
o-Xylene	49.8	1.0	"	50.0		99.5	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	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.



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: 008315017
Project: Noble - Branter #1

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 5D23017 - EPA 5030B (Water)

Matrix Spike (5D23017-MS1)		Source: X504259-01			Prepared: 04/23/2015 Analyzed: 04/23/2015					
Benzene	51.3	1.0	ug/L	50.0	ND	103	74-130			
Toluene	53.8	1.0	"	50.0	ND	108	73-131			
Ethylbenzene	57.8	1.0	"	50.0	ND	116	76-132			
m,p-Xylene	113	2.0	"	100	ND	113	69-139			
o-Xylene	52.6	1.0	"	50.0	ND	105	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.1	88.6-111			

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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 5D23017 - EPA 5030B (Water)

Matrix Spike Dup (5D23017-MSD1)		Source: X504259-01			Prepared: 04/23/2015 Analyzed: 04/23/2015					
Benzene	49.4	1.0	ug/L	50.0	ND	98.8	74-130	3.76	20	
Toluene	52.1	1.0	"	50.0	ND	104	73-131	3.10	20	
Ethylbenzene	55.0	1.0	"	50.0	ND	110	76-132	4.93	20	
m,p-Xylene	108	2.0	"	100	ND	108	69-139	4.87	20	
o-Xylene	51.0	1.0	"	50.0	ND	102	74-131	3.03	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.5	88.6-111			

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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.

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Jen Pellegrini For Noelle Doyle Mathis, President