



**Beaver Durham 12-32 Pit Closure
COGCC Remediation Number – 7992
Form 4 (Notification of Completion)**

GRMR Oil & Gas LLC, (GRMR) is submitting this Form 4 (Sundry Notice) to report assessment and soil remediation activities associated with the closure of a production pit (Facility ID – 110518) at the Beaver Durham 12-32 (Remediation Number 7992) in the Williams Fork area of operations in Moffat County, Colorado. A topographical Site Location Map is attached as Figure 1.

REPORT OF WORK COMPLETED

On August 26, 2015, LT Environmental (LTE) personnel were on site to excavate hydrocarbon impacted material identified during the 2013 soil boring activities. Soil was excavated down to 15 feet (ft) below ground surface (bgs) in the location of SB03. One soil sample was collected from the bottom of the pothole and submitted to ESC Lab Sciences of Mt. Juliet, Tennessee, for laboratory analysis of constituents identified in Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1. The pothole location is depicted on the attached Figure 2

Laboratory analytical results indicate concentrations of analytes in all soil samples that are either within COGCC Table 910-1 concentrations levels or are within background concentrations observed in the area. Laboratory analytical results are summarized in the attached Table 1. Laboratory analytical reports are included as an attachment.

Following these remediation efforts, the excavated area was backfilled with clean fill material to match existing grade. Approximately 15 cubic yards of excavated soil was hauled off and treated to within COGCC Table 910-1 concentration levels by soil shredding.

NOTIFICATION OF COMPLETION

This Sundry Notice is being submitted as the Notification of Completion for COGCC Remediation #7992. If the information provided is satisfactory, please provide regulatory documentation of project completion.

ATTACHMENTS

Figure 1 - Site Location Map
Figure 2 - Site Map
Table 1 – Pit Soil Confirmation Samples
Laboratory Analytical Reports

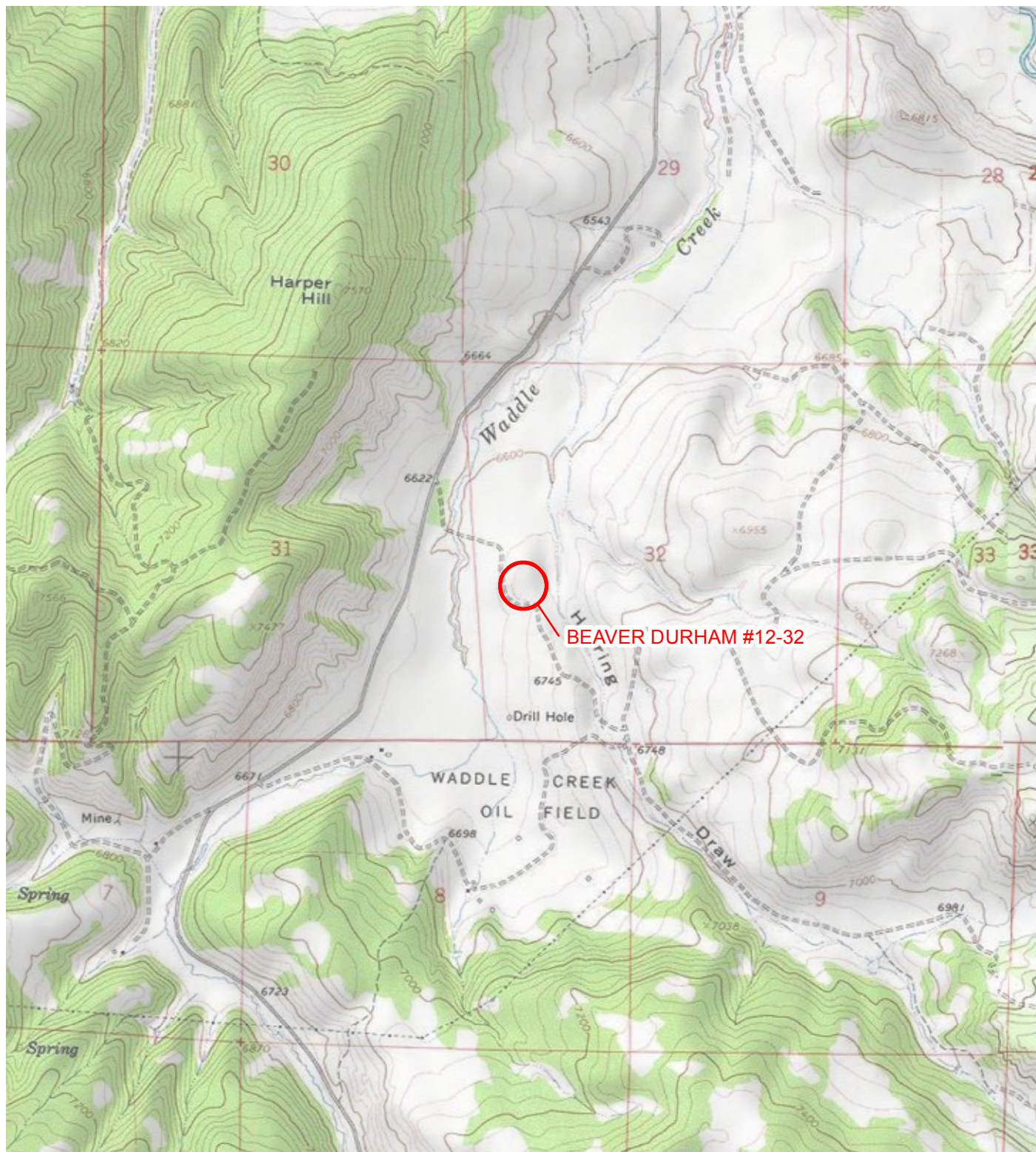


IMAGE COURTESY OF ESRI/USGS

LEGEND

○ SITE LOCATION

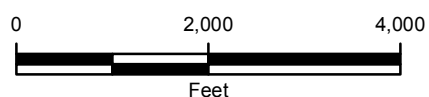


FIGURE 1
 SITE LOCATION MAP
 BEAVER DURHAM #12-32
 NWSW SEC 32-T5N-R90W
 MOFFAT COUNTY, COLORADO
 SHELL EXPLORATION AND PRODUCTION COMPANY





IMAGE COURTESY OF ESRI

LEGEND

- BEAVER DURHAM #12-32 WELLHEAD
- POTHOLE SAMPLE
- POTHOLE LOCATION
- PIT BOUNDARY

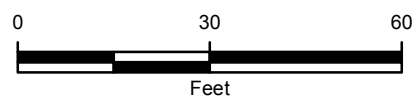


FIGURE 2
SITE MAP
BEAVER DURHAM 12-32
NWSW SEC 32-T5N-R90W
MOFFAT COUNTY, COLORADO
GRMR OIL & GAS, LLC.



TABLE 1
PIT SOIL CONFIRMATION SAMPLES
GRMR PRODUCTION PAD DURHAM HOMESTEAD #1
HAMILTON, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20150926-PH01 (Pit) @ 15'
Sample Date			9/26/2015
Sample Type			Confirmation
Arsenic	0.39	mg/kg	3.13
Barium	15,000	mg/kg	92.3
Cadmium	70	mg/kg	<0.50
Chromium (III)	120,000	mg/kg	3.32
Chromium (VI)	23	mg/kg	<15
Copper	3,100	mg/kg	5.81
Lead	400	mg/kg	5.88
Mercury	23	mg/kg	<5.0
Nickel	1,600	mg/kg	6.27
Selenium	390	mg/kg	<50
Silver	390	mg/kg	<0.50
Zinc	23,000	mg/kg	20.9
EC	4.0	mmhos/cm	1.01
pH	6 - 9	SU	7.0
SAR	12	unitless	11.0
TPH-GRO		mg/kg	<50
TPH-DRO		mg/kg	<50
TPH	500	mg/kg	<50
Benzene	0.17	mg/kg	<0.01
Toluene	85	mg/kg	<0.01
Ethylbenzene	100	mg/kg	<0.01
Total Xylenes	175	mg/kg	<0.01
Acenaphthene	1000	mg/kg	<1.0
Anthracene	1000	mg/kg	<1.0
Benzo(A)anthracene	0.22	mg/kg	<0.15
Benzo(B)fluoranthene	0.22	mg/kg	<0.15
Benzo(K)fluoranthene	2.2	mg/kg	<1.5
Benzo(A)pyrene	0.022	mg/kg	<0.015
Chrysene	22	mg/kg	<0.15
Dibenzo(A,H)anthracene	0.022	mg/kg	<0.015
Fluoranthene	1000	mg/kg	<1.0
Fluorene	1000	mg/kg	<1.0
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	<0.15
Naphthalene	23	mg/kg	<1.0
Pyrene	1000	mg/kg	<1.0

NOTES:

< - less than the stated reporting limit

BOLD - indicates result exceeds the COGCC concentration level

COGCC - Colorado Oil and Gas Conservation Commission

EC- electrical conductivity

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

SAR- Sodium Adsorption Ratio

SU - standard unit

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

TPH - combination of TPH-GRO and TPH-DRO



Test Report



October 8, 2015

Client: LT Environmental

Project: BD 12-32 Potholes

Lab ID: 3972

Date Samples Received: 9/29/2015

Number of Samples: 4

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Dieken".

Christopher Dieken
Quality Assurance Manager

A handwritten signature in black ink, appearing to read "Todd Rhea".

Todd Rhea
Laboratory Manager

eAnalytics Laboratory

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Chain of Custody

eANALYTICS
LABORATORY

Chain of Custody Form

[illegible]

WO # 3972

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Page 1 of 1

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The results contained within this report relate only to the items analyzed

eANALYTICS

LABORATORY

Client: LT Environmental

Lab ID: 3972

Project: BD 12-32 Potholes

Analysis: Volatile Organics
TPHMethod: EPA8260
EPA8260/8015

Sample Name							Date Sampled	Date Analyzed	Lab ID	
					TPH GRO	TPH DRO				
	Benzene	Toluene	Ethyl- benzene	Total Xylenes	C6-C10	C10-C28				
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
20150926-PH01(Pit) @ 15'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	09/26/15	10/01/15	3972	1
20150926-PH02(Well) @ 18'	< 0.01	< 0.01	< 0.01	0.016	< 50	< 50	09/26/15	10/01/15	3972	2
20150926-PH03(Well) @ 12'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	09/26/15	10/01/15	3972	3
20150926-PH04(Well) @ 17'	0.010	< 0.01	0.143	0.171	< 50	< 50	09/26/15	10/01/15	3972	4

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eANALYTICS
LABORATORY

Client: LT Environmental

Lab ID: 3972

Project: BD 12-32 Potholes

Analysis: pH
EC
SARMethod: EPA9045D
USDA 60 (3)
USDA 60 (20B)

Sample Name	pH	EC	SAR	Date Sampled	Date Analyzed	Lab ID	
	su	mmhos/cm	ratio				
20150926-PH01(Pit) @ 15'	7.0	1.01	11.0	09/26/15	10/01/15	3972	1
20150926-PH02(Well) @ 18'	6.9	0.656	1.30	09/26/15	10/01/15	3972	2
20150926-PH03(Well) @ 12'	6.9	0.620	0.21	09/26/15	10/01/15	3972	3
20150926-PH04(Well) @ 17'	6.9	0.584	0.36	09/26/15	10/01/15	3972	4

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eANALYTICS
LABORATORY

Client: LT Environmental

Lab ID: 3972

Project: BD 12-32 Potholes

Analysis: Table 910 metals

Method: EPA6010/7196/7471

Sample Name	As	Ba	B	Cd	Cr (III)	Cr (VI)	Cu	Pb	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
20150926-PH01(Pit) @ 15'	3.13	92.3	< 1.2	< 0.50	3.32	< 15	5.81	5.88	09/26/15	10/02/15	3972	1
20150926-PH02(Well) @ 18'	2.84	77.1	< 1.2	< 0.50	4.43	< 15	8.95	7.39	09/26/15	10/02/15	3972	2
20150926-PH03(Well) @ 12'	3.05	105	< 1.2	< 0.50	3.27	< 15	5.53	5.88	09/26/15	10/02/15	3972	3
20150926-PH04(Well) @ 17'	2.75	73.8	< 1.2	< 0.50	4.70	< 15	8.85	8.42	09/26/15	10/02/15	3972	4

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eANALYTICS
LABORATORY

Client: LT Environmental

Lab ID: 3972

Project: BD 12-32 Potholes

Analysis: Table 910 metals

Method: EPA6010/7196/7471

Sample Name	Hg	Ni	Se	Ag	Zn	Date Sampled	Date Analyzed	Lab ID	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
20150926-PH01(Pit) @ 15'	< 5.0	6.27	< 5.0	< 0.50	20.9	09/26/15	10/02/15	3972	1
20150926-PH02(Well) @ 18'	< 5.0	9.93	< 5.0	< 0.50	24.9	09/26/15	10/02/15	3972	2
20150926-PH03(Well) @ 12'	< 5.0	8.70	< 5.0	< 0.50	19.2	09/26/15	10/02/15	3972	3
20150926-PH04(Well) @ 17'	< 5.0	10.5	< 5.0	< 0.50	30.7	09/26/15	10/02/15	3972	4

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eANALYTICS

LABORATORY

Client: LT Environmental

Sample Name: 20150926-PH01(Pit) @ 15'

Project: BD 12-32 Potholes

Lab ID: 3972 1

Date Sampled: 9/26/2015

Analysis: PAH

Date Analyzed: 10/3/2015

Method: EPA8270 SIM

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
2,4,6-Tribromophenol (70%-130%)	72	Nitrobenzene-d5 (70%-130%)	100
2-Fluorobiphenyl (70%-130%)	113	2-Fluorophenol (70%-130%)	102

Compound	CAS #	Result (mg/kg)	Compound	CAS #	Result (mg/kg)
Acenaphthene	83-32-9	< 1.0	Chrysene	218-01-9	< 0.15
Acenaphthylene	208-96-8	< 1.0	Dibenzo(a,h)-anthracene	53-70-3	< 0.015
Anthracene	120-12-7	< 1.0	Fluoranthene	206-44-0	< 1.0
Benzo(a)-anthracene	56-55-3	< 0.15	Fluorene	86-73-7	< 1.0
Benzo(a)-pyrene	50-32-8	< 0.015	Indeno(1,2,3-C,D)-pyrene	193-39-5	< 0.15
Benzo(b)fluoranthene	205-99-2	< 0.15	Naphthalene	91-20-3	< 1.0
Benzo(g,h,i)-perylene	191-24-2	< 1.0	Phenanthrene	85-01-8	< 1.0
Benzo(k)-fluoranthene	207-08-9	< 1.5	Pyrene	129-00-0	< 1.0

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LABORATORY

Client: LT Environmental

Sample Name: 20150926-PH02(Well) @ 18'

Project: BD 12-32 Potholes

Lab ID: 3972 2

Date Sampled: 9/26/2015

Analysis: PAH

Date Analyzed: 10/3/2015

Method: EPA8270 SIM

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
2,4,6-Tribromophenol (70%-130%)	79	Nitrobenzene-d5 (70%-130%)	101
2-Fluorobiphenyl (70%-130%)	111	2-Fluorophenol (70%-130%)	115

Compound	CAS #	Result (mg/kg)	Compound	CAS #	Result (mg/kg)
Acenaphthene	83-32-9	< 1.0	Chrysene	218-01-9	< 0.15
Acenaphthylene	208-96-8	< 1.0	Dibenzo(a,h)-anthracene	53-70-3	< 0.015
Anthracene	120-12-7	< 1.0	Fluoranthene	206-44-0	< 1.0
Benzo(a)-anthracene	56-55-3	< 0.15	Fluorene	86-73-7	< 1.0
Benzo(a)-pyrene	50-32-8	< 0.015	Indeno(1,2,3-C,D)-pyrene	193-39-5	< 0.15
Benzo(b)fluoranthene	205-99-2	< 0.15	Naphthalene	91-20-3	< 1.0
Benzo(g,h,i)-perylene	191-24-2	< 1.0	Phenanthrene	85-01-8	< 1.0
Benzo(k)-fluoranthene	207-08-9	< 1.5	Pyrene	129-00-0	< 1.0

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eANALYTICS

LABORATORY

Client: LT Environmental

Sample Name: 20150926-PH03(Well) @ 12'

Project: BD 12-32 Potholes

Lab ID: 3972 3

Date Sampled: 9/26/2015

Analysis: PAH

Date Analyzed: 10/3/2015

Method: EPA8270 SIM

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
2,4,6-Tribromophenol (70%-130%)	73	Nitrobenzene-d5 (70%-130%)	89
2-Fluorobiphenyl (70%-130%)	105	2-Fluorophenol (70%-130%)	106

Compound	CAS #	Result (mg/kg)	Compound	CAS #	Result (mg/kg)
Acenaphthene	83-32-9	< 1.0	Chrysene	218-01-9	< 0.15
Acenaphthylene	208-96-8	< 1.0	Dibenzo(a,h)-anthracene	53-70-3	< 0.015
Anthracene	120-12-7	< 1.0	Fluoranthene	206-44-0	< 1.0
Benzo(a)-anthracene	56-55-3	< 0.15	Fluorene	86-73-7	< 1.0
Benzo(a)-pyrene	50-32-8	< 0.015	Indeno(1,2,3-C,D)-pyrene	193-39-5	< 0.15
Benzo(b)fluoranthene	205-99-2	< 0.15	Naphthalene	91-20-3	< 1.0
Benzo(g,h,i)-perylene	191-24-2	< 1.0	Phenanthrene	85-01-8	< 1.0
Benzo(k)-fluoranthene	207-08-9	< 1.5	Pyrene	129-00-0	< 1.0

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LABORATORY

Client: LT Environmental

Sample Name: 20150926-PH04(Well) @ 17'

Project: BD 12-32 Potholes

Lab ID: 3972 4

Date Sampled: 9/26/2015

Analysis: PAH

Date Analyzed: 10/3/2015

Method: EPA8270 SIM

Surrogate Recoveries

Surrogate	% Recovery	Surrogate	% Recovery
2,4,6-Tribromophenol (70%-130%)	80	Nitrobenzene-d5 (70%-130%)	109
2-Fluorobiphenyl (70%-130%)	107	2-Fluorophenol (70%-130%)	104

Compound	CAS #	Result (mg/kg)	Compound	CAS #	Result (mg/kg)
Acenaphthene	83-32-9	< 1.0	Chrysene	218-01-9	< 0.15
Acenaphthylene	208-96-8	< 1.0	Dibenzo(a,h)-anthracene	53-70-3	< 0.015
Anthracene	120-12-7	< 1.0	Fluoranthene	206-44-0	< 1.0
Benzo(a)-anthracene	56-55-3	< 0.15	Fluorene	86-73-7	< 1.0
Benzo(a)-pyrene	50-32-8	< 0.015	Indeno(1,2,3-C,D)-pyrene	193-39-5	< 0.15
Benzo(b)fluoranthene	205-99-2	< 0.15	Naphthalene	91-20-3	< 1.0
Benzo(g,h,i)-perylene	191-24-2	< 1.0	Phenanthrene	85-01-8	< 1.0
Benzo(k)-fluoranthene	207-08-9	< 1.5	Pyrene	129-00-0	< 1.0

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eANALYTICS
LABORATORY

Client: LT Environmental

Lab ID: 3972

Project: BD 12-32 Potholes

Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
20150926-PH01(Pit) @ 15'	103	91	98	100	09/26/15	10/01/15	3972 1
20150926-PH02(Well) @ 18'	93	102	101	94	09/26/15	10/01/15	3972 2
20150926-PH03(Well) @ 12'	104	103	96	96	09/26/15	10/01/15	3972 3
20150926-PH04(Well) @ 17'	94	92	98	104	09/26/15	10/01/15	3972 4

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eANALYTICS

LABORATORY

Client: LT Environmental

Lab ID: 3972

Project: BD 12-32 Potholes

Analysis: Volatile Organics
TPHMethod: EPA8260
EPA8260/8015

Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH GRO C6-C10	TPH DRO C10-C28	Date Analyzed	Lab ID		
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec				
Laboratory Control Sample	95	104	94	97	100	104	10/01/15	LCS	3972	1
(70-130%)										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	10/01/15	MB	3972	1
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				

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