



**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

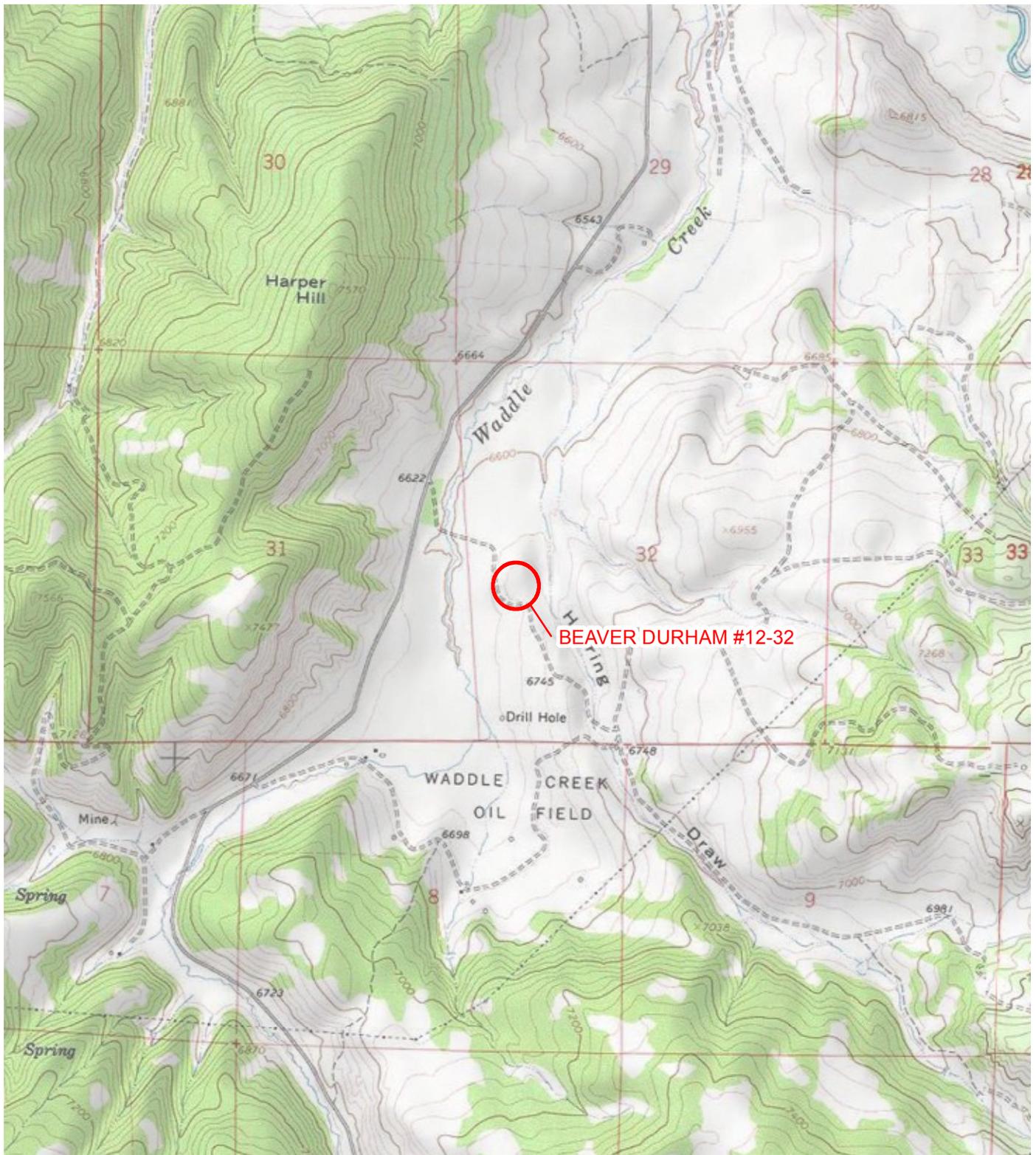


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

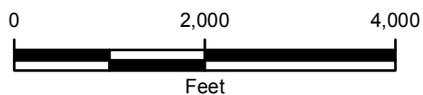


FIGURE 1
SITE LOCATION MAP
BEAVER DURHAM #12-32
NWSW SEC 32-T5N-R90W
MOFFAT COUNTY, COLORADO
SHELL EXPLORATION AND PRODUCTION COMPANY





IMAGE COURTESY OF ESRI

LEGEND

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

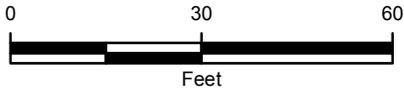


FIGURE 2
SITE MAP
 BEAVER DURHAM 12-32
 NWSW SEC 32-T5N-R90W
 MOFFAT COUNTY, COLORADO
GRMR OIL & GAS, LLC.



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	<5.0
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

eANALYTICS LABORATORY

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

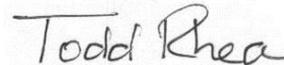
The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

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

Sincerely,



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY			eANALYTICS LABORATORY										
4130 Clydesdale Parkway Loveland CO 80538			Phone: (970) 667-6975			Fax: (970) 669-0941			www.eAnalyticsLab.com				
CLIENT INFORMATION <small>(*New Clients please fill out completely)</small>			ANALYSIS INFORMATION <small>(Select analysis by checking box on corresponding sample line)</small>										
Company: LT Environmental			Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTX / TPH-GRO	TPH-DRO	PAH's	SAR	EC	pH	Metals - Table 910 List	Other Analysis	
Project: <u>Ardenham 431 St BD 12-32 Potholes</u>													
Project Manager: <u>Rob Fishburn</u>													
Sampler: <u>Wesley Toews</u> <small>r.fishburn@ltenv.com</small>													
Phone/Email: (970) 285-9985 <small>w.toews@ltenv.com</small>													
Address: 820 Megan Avenue, Unit B Rifle CO 81650													
Lab ID	Sample Name	Sampling Date/Time											
1	20150926-PH01(PH) @ 15'	1535 9-26-15 AM/PM	25		X	X	X	X	X	X	X		
2	20150926-PH02 (well) @ 18'	1800 9-26-15 AM/PM	25		X	X	X	X	X	X	X		
3	20150926-PH03 (well) @ 12'	1647 9-26-15 AM/PM	25		X	X	X	X	X	X	X		
4	20150926-PH04 (well) @ 17'	1735 9-26-15 AM/PM	25		X	X	X	X	X	X	X		
		AM/PM											
		AM/PM											
		AM/PM											
		AM/PM											
		AM/PM											
		AM/PM											
		AM/PM											
		AM/PM											
		AM/PM											
		AM/PM											
Comments:													
Turnaround Time (Business Days) <small>TAT begins when sample is received by eANALYTICS</small> <input checked="" type="checkbox"/> Normal (5-10 Days) <input type="checkbox"/> 3 Day (1.25x) Rush analysis requires an extra charge. <input type="checkbox"/> 2 Day (1.5x) If possible please inform eANALYTICS in advance for rush analysis. <input type="checkbox"/> 1 Day (2x) <input type="checkbox"/> Same Day (3x)				Record of Custody Relinquished by: <u>[Signature]</u> Date: <u>9/26/15</u> Company: LT Environmental Time: <u>1100</u> <small>AM/PM</small> Received by: _____ Date: _____ Company: _____ Time: _____ <small>AM/PM</small> Relinquished by: _____ Date: _____ Company: _____ Time: _____ Received by: <u>[Signature]</u> Date: <u>9/29/15</u> Company: eANALYTICS Time: <u>9:47</u> <small>AM/PM</small>									
For eANALYTICS Use Samples Received Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Received Within Temperature Range (2-6°C) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample Preservative <input checked="" type="checkbox"/> Ice <input type="checkbox"/> None <input type="checkbox"/> Acid <input type="checkbox"/> Other													

WO # 397a

eAnalytics Laboratory

Page 1 of 1



Client: LT Environmental Lab ID: 3972
 Project: BD 12-32 Potholes
 Analysis: Volatile Organics Method: EPA8260
 TPH EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Total Xylenes mg/kg	TPH	TPH	Date Sampled	Date Analyzed	Lab ID
					GRO C6-C10 mg/kg	DRO C10-C28 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

eANALYTICS
LABORATORY

Client: LT Environmental Lab ID: 3972
 Project: BD 12-32 Potholes
 Analysis: pH Method: EPA9045D
 EC USDA 60 (3)
 SAR USDA 60 (20B)

Sample Name	pH su	EC mmhos/cm	SAR ratio	Date	Date	Lab ID
				Sampled	Analyzed	
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



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	Date	Lab ID
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Sampled	Analyzed	
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



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	Date	Lab ID
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Sampled	Analyzed	
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



Client:	LT Environmental	Sample Name:	20150926-PH01(Pit) @ 15'
		Lab ID:	3972 1
Project:	BD 12-32 Potholes	Date Sampled:	9/26/2015
		Date Analyzed:	10/3/2015
Analysis:	PAH	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



4130 Clydesdale Parkway Loveland CO 80538

eANALYTICS

LABORATORY

Client:	LT Environmental	Sample Name:	20150926-PH02(Well) @ 18'
		Lab ID:	3972 2
Project:	BD 12-32 Potholes	Date Sampled:	9/26/2015
		Date Analyzed:	10/3/2015
Analysis:	PAH	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

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client:	LT Environmental	Sample Name:	20150926-PH03(Well) @ 12'
		Lab ID:	3972 3
Project:	BD 12-32 Potholes	Date Sampled:	9/26/2015
		Date Analyzed:	10/3/2015
Analysis:	PAH	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



Client:	LT Environmental	Sample Name:	20150926-PH04(Well) @ 17'
		Lab ID:	3972 4
Project:	BD 12-32 Potholes	Date Sampled:	9/26/2015
		Date Analyzed:	10/3/2015
Analysis:	PAH	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



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



Client: LT Environmental Lab ID: 3972
 Project: BD 12-32 Potholes
 Analysis: Volatile Organics Method: EPA8260
 TPH EPA8260/8015

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