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December 04, 2009

Petroleum Development Corporation
3801 Carson Ave.
Evans COLOI 80534

Hubbs
Project Number: 41-33
Project: Sughroue

Attached are the analytical results for Sughroue received by Origins Laboratory, Inc. 12/3/2009 3:43:00PM. Please let us know if you have any questions, or if we can help with anything at all.

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

DRAFT REPORT
DATA SUBJECT TO CHANGE

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Denver, Colorado 80211
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Petroleum Development Corporation
3801 Carson Ave.
Evans COLO 80534

Hubbs
Project Number: 41-33
Project: Sughroue

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
DRAFT: N01 @ 4'	X912013-01	Soil	12/3/2009 1:45:00PM	12/03/2009 15:43
DRAFT: E01 @	X912013-02	Soil	12/3/2009 1:30:00PM	12/03/2009 15:43
DRAFT: S01 @	X912013-03	Soil	12/3/2009 1:35:00PM	12/03/2009 15:43
DRAFT: W01 @	X912013-04	Soil	12/3/2009 1:40:00PM	12/03/2009 15:43
DRAFT: Bttm 01 @ 6'	X912013-05	Soil	12/3/2009 1:50:00PM	12/03/2009 15:43

DRAFT REPORT

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Petroleum Development Corporation
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 Project Number: 41-33
 Project: Sughroue

DRAFT: N01 @ 4'
X912013-01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.0100	mg/kg	2.5	9L03001	12/03/2009	12/04/2009	
Toluene	ND	0.0100	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	
o-Xylene	ND	0.0100	"	"	"	"	"	
m,p-Xylene	ND	0.0200	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.7 %	77.6-134			"	"	"	
<i>Surrogate: Toluene-d8</i>	105 %	81.4-121			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.5 %	74.7-123			"	"	"	

GRO/DRO by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9L03003	12/03/2009	12/03/2009	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	121 %	65-140			"	"	"	
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Hubbs
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 Project: Sughroue

**DRAFT: E01 @
 X912013-02 (Soil)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.0100	mg/kg	2.5	9L03001	12/03/2009	12/04/2009
Toluene	ND	0.0100	"	"	"	"	"
Ethylbenzene	ND	0.0100	"	"	"	"	"
o-Xylene	ND	0.0100	"	"	"	"	"
m,p-Xylene	ND	0.0200	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.0 %	77.6-134			"	"	"
<i>Surrogate: Toluene-d8</i>	104 %	81.4-121			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	96.6 %	74.7-123			"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9L03003	12/03/2009	12/03/2009
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

<i>Surrogate: o-Terphenyl</i>	122 %	65-140			"	"	"
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Petroleum Development Corporation
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**DRAFT: S01 @
 X912013-03 (Soil)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.0100	mg/kg	2.5	9L03001	12/03/2009	12/04/2009	
Toluene	ND	0.0100	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	
o-Xylene	ND	0.0100	"	"	"	"	"	
m,p-Xylene	ND	0.0200	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.8 %	77.6-134			"	"	"	
<i>Surrogate: Toluene-d8</i>	104 %	81.4-121			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.4 %	74.7-123			"	"	"	

GRO/DRO by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9L03003	12/03/2009	12/03/2009	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	121 %	65-140			"	"	"	
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**DRAFT: W01 @
 X912013-04 (Soil)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.0100	mg/kg	2.5	9L03001	12/03/2009	12/04/2009
Toluene	ND	0.0100	"	"	"	"	"
Ethylbenzene	ND	0.0100	"	"	"	"	"
o-Xylene	ND	0.0100	"	"	"	"	"
m,p-Xylene	ND	0.0200	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.2 %	77.6-134			"	"	"
<i>Surrogate: Toluene-d8</i>	104 %	81.4-121			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	96.0 %	74.7-123			"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9L03003	12/03/2009	12/03/2009
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

<i>Surrogate: o-Terphenyl</i>	126 %	65-140			"	"	"
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DRAFT: Bttm 01 @ 6'
X912013-05 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.0100	mg/kg	2.5	9L03001	12/03/2009	12/04/2009	
Toluene	ND	0.0100	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	
o-Xylene	ND	0.0100	"	"	"	"	"	
m,p-Xylene	ND	0.0200	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.3 %	77.6-134			"	"	"	
<i>Surrogate: Toluene-d8</i>	105 %	81.4-121			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.8 %	74.7-123			"	"	"	

GRO/DRO by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9L03003	12/03/2009	12/03/2009	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	123 %	65-140			"	"	"	
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DRAFT: Extractable Petroleum Hydrocarbons by 8015M – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L03003 – Default Prep GC-Semi										
Blank (9L03003-BLK1)										
					Prepared: 12/03/2009 Analyzed: 12/03/2009					
Gasoline (C6-C10)	ND	50.0	mg/kg				65-140			
Diesel (C10-C28)	ND	50.0	"				60-140			
<i>Surrogate: o-Terphenyl</i>	<i>59.8</i>		<i>g</i>	<i>50.0</i>		<i>120</i>	<i>65-140</i>			
LCS (9L03003-BS1)										
					Prepared: 12/03/2009 Analyzed: 12/03/2009					
Gasoline (C6-C10)	ND	50.0	mg/kg				65-140			
Diesel (C10-C28)	558	50.0	"	500		112	60-140			
<i>Surrogate: o-Terphenyl</i>	<i>60.3</i>		<i>g</i>	<i>50.0</i>		<i>121</i>	<i>65-140</i>			
LCS Dup (9L03003-BSD1)										
					Prepared: 12/03/2009 Analyzed: 12/03/2009					
Gasoline (C6-C10)	ND	50.0	mg/kg				65-140		25	
Diesel (C10-C28)	559	50.0	"	500		112	60-140	0.0827	25	
<i>Surrogate: o-Terphenyl</i>	<i>60.2</i>		<i>g</i>	<i>50.0</i>		<i>120</i>	<i>65-140</i>			

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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Items for Project Manager Review

LabNumber	Analysis	Anayte	Exception
			This is a modified report
			VERSION 5.85:2894
		(Soil)	Special Units Used
9L03003-BS1	BTEX by EPA 8260B	Gasoline (C6-C10)	No spike level
9L03003-BSD1	GRO/DRO by EPA 8015M	Gasoline (C6-C10)	No spike level
	GRO/DRO by EPA 8015M		

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