

December 01, 2010

Petroleum Development Corporation

Tony Cooper

3801 Carson Ave.

Evans

CO

80534

Project Name- Cozzens

Project Number- [none]

Attached are your analytical results for Cozzens received by Origins Laboratory, Inc. November 22, 2010 9:45 am. This project is associated with Origins project number X011161-01 .

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.

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



Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
S01@ 6"	X011161-01	Soil	11/19/2010 8:05:00AM	11/22/2010 09:45
S02@ 3'	X011161-02	Soil	11/19/2010 8:10:00AM	11/22/2010 09:45
S03@ 6"	X011161-03	Soil	11/19/2010 8:15:00AM	11/22/2010 09:45
S04@ 3'	X011161-04	Soil	11/19/2010 8:20:00AM	11/22/2010 09:45
S05@ 6"	X011161-05	Soil	11/19/2010 8:25:00AM	11/22/2010 09:45
S06@ 3'	X011161-06	Soil	11/19/2010 8:30:00AM	11/22/2010 09:45
S07@ 6"	X011161-07	Soil	11/19/2010 8:35:00AM	11/22/2010 09:45
S08@ 3'	X011161-08	Soil	11/19/2010 8:40:00AM	11/22/2010 09:45
S09@ 6"	X011161-09	Soil	11/19/2010 8:45:00AM	11/22/2010 09:45
S10@ 3'	X011161-10	Soil	11/19/2010 8:50:00AM	11/22/2010 09:45
S11@ 6"	X011161-11	Soil	11/19/2010 8:55:00AM	11/22/2010 09:45
S12@ 3'	X011161-12	Soil	11/19/2010 9:00:00AM	11/22/2010 09:45

Origins Laboratory, Inc.



Noelle E Doyle,

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.

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

www.originslaboratory.com

X011161

page 1 of 2

ORIGINS
LABORATORY, INC

Client: Petroleum Development Corp
Address: 3801 Carson Ave
Telephone Number: 970-534-1221
Email Address: tkooper@petd.com

Project Manager: Cooper
Project Name: Cozzens
Project Number: Cozzens
Samples Collected By: Cooper

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other
S01 @ 6"	11-19-10	8:05 am	1					X			X	1	X011161 Naphthalene BTEX GRO-DRO
S02 @ 3'		8:10										2	
S03 @ 6"		8:15										3	
S04 @ 3'		8:20										4	
S05 @ 6"		8:25										5	
S06 @ 3'		8:30										6	
S07 @ 6"		8:35										7	
S08 @ 3'		8:40										8	
S09 @ 6"		8:45										9	
S10 @ 3'		8:50										10	
Relinquished By: <u>TK</u>	Date: <u>11-22-10</u>	Time: <u>9:45a</u>		Received By: <u>[Signature]</u>				Received By: <u>[Signature]</u>		Date: <u>11-22-10</u>	Time: <u>9:45</u>	Turnaround Time: <u>3.1</u>	
Relinquished By:	Date:	Time:		Received By:				Received By:		Date:	Time:	Turnaround Time:	

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

Noelle E Doyle

Noelle E Doyle,

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Tony Cooper
Project Number: [none]
Project: Cozzens

[illegible]

Origins Laboratory, Inc.

Noelle E Doyle,

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Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S01@ 6"

11/19/2010 8:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-01 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	78.9 %	70.3-123			"	"	"
Surrogate: Toluene-d8	94.9 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	95.0 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	89.3 %	65-140			"	"	"
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Origins Laboratory, Inc.



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Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S02@ 3'

11/19/2010 8:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-02 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	77.7 %	70.3-123			"	"	"
Surrogate: Toluene-d8	94.3 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	95.8 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	87.7 %	65-140			"	"	"
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Origins Laboratory, Inc.



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Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S03@ 6"

11/19/2010 8:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-03 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	79.3 %	70.3-123			"	"	"
Surrogate: Toluene-d8	92.5 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	93.8 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	85.9 %	65-140			"	"	"
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Origins Laboratory, Inc.



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Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S04@ 3'

11/19/2010 8:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-04 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	81.9 %	70.3-123			"	"	"
Surrogate: Toluene-d8	94.2 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	96.4 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	88.7 %	65-140			"	"	"
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Origins Laboratory, Inc.



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Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S05@ 6"

11/19/2010 8:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-05 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	81.2 %	70.3-123			"	"	"
Surrogate: Toluene-d8	96.0 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	91.1 %	65-140			"	"	"
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Origins Laboratory, Inc.



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Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S06@ 3'

11/19/2010 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-06 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	82.9 %	70.3-123			"	"	"
Surrogate: Toluene-d8	94.7 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	93.2 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	88.6 %	65-140			"	"	"
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Origins Laboratory, Inc.



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Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S07@ 6"

11/19/2010 8:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-07 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	85.3 %	70.3-123			"	"	"
Surrogate: Toluene-d8	96.9 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	92.9 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	129	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	91.0 %	65-140			"	"	"
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Origins Laboratory, Inc.



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Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S08@ 3'

11/19/2010 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-08 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	84.8 %	70.3-123			"	"	"
Surrogate: Toluene-d8	98.0 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	92.9 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	81.2 %	65-140			"	"	"
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Origins Laboratory, Inc.



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Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S09@ 6"

11/19/2010 8:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-09 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	83.8 %	70.3-123			"	"	"
Surrogate: Toluene-d8	95.1 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	93.5 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	94.0 %	65-140			"	"	"
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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.

Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S10@ 3'

11/19/2010 8:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-10 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010	
Toluene	ND	0.00400	"	"	"	"	"	
Ethylbenzene	ND	0.00400	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	
Napthalene	ND	0.00400	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	83.6 %	70.3-123			"	"	"	
Surrogate: Toluene-d8	95.8 %	75.9-123			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %	83-123			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	92.0 %	65-140			"	"	"	
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Origins Laboratory, Inc.



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Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S11@ 6"

11/19/2010 8:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X011161-11 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	82.1 %	70.3-123			"	"	"
Surrogate: Toluene-d8	95.3 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	93.9 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	89.6 %	65-140			"	"	"
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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.

Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

S12@ 3'

11/19/2010 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X011161-12 (Soil)

BTEX + Napthalene by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	OK26002	11/26/2010	11/29/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
Xylenes, total	ND	0.00200	"	"	"	"	"
Napthalene	ND	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	83.1 %	70.3-123			"	"	"
Surrogate: Toluene-d8	94.3 %	75.9-123			"	"	"
Surrogate: 4-Bromofluorobenzene	91.8 %	83-123			"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	OK27002	11/27/2010	11/27/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	84.7 %	65-140			"	"	"
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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.

Noelle E Doyle,

Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

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 OK27002 - Default Prep GC-Semi										
Blank (OK27002-BLK1)					Prepared: 11/27/2010 Analyzed: 11/27/2010					
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
TPH - Carbon Chain Total	ND	50.0	"							
<i>Surrogate: o-Terphenyl</i>	<i>47.8</i>		<i>g</i>	<i>50.0</i>		<i>95.5</i>	<i>65-140</i>			
LCS (OK27002-BSI)					Prepared: 11/27/2010 Analyzed: 11/27/2010					
Gasoline (C6-C10)	67.8	50.0	mg/kg				65-140			
Diesel (C10-C28)	479	50.0	"	500		95.8	60-140			
<i>Surrogate: o-Terphenyl</i>	<i>47.0</i>		<i>g</i>	<i>50.0</i>		<i>94.0</i>	<i>65-140</i>			
Matrix Spike (OK27002-MSI)					Source: X011161-01	Prepared: 11/27/2010 Analyzed: 11/27/2010				
Gasoline (C6-C10)	73.8	50.0	mg/kg		32.6		65-130			
Diesel (C10-C28)	482	50.0	"	500	27.7	90.9	60-140			
<i>Surrogate: o-Terphenyl</i>	<i>44.2</i>		<i>g</i>	<i>50.0</i>		<i>88.3</i>	<i>65-140</i>			
Matrix Spike Dup (OK27002-MSD1)					Source: X011161-01	Prepared: 11/27/2010 Analyzed: 11/27/2010				
Gasoline (C6-C10)	72.7	50.0	mg/kg		32.6		65-130	1.45	20	
Diesel (C10-C28)	479	50.0	"	500	27.7	90.3	60-140	0.565	25	
<i>Surrogate: o-Terphenyl</i>	<i>45.0</i>		<i>g</i>	<i>50.0</i>		<i>90.0</i>	<i>65-140</i>			

Origins Laboratory, Inc.



Noelle E Doyle,

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Petroleum Development Corporation
3801 Carson Ave.
Evans CO 80534

Tony Cooper
Project Number: [none]
Project: Cozzens

Volatile Organic Compounds by EPA Method 8260B - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch OK26002 - EPA 5030B										
Blank (OK26002-BLK1)					Prepared: 11/26/2010 Analyzed: 11/29/2010					
Benzene	ND	0.004	mg/kg							
Toluene	ND	0.004	"							
Ethylbenzene	ND	0.004	"							
o-Xylene	ND	0.004	"							
m,p-Xylene	ND	0.008	"							
Naphthalene	ND	0.004	"							
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	62.5		76.9	70.3-123			
Surrogate: Toluene-d8	58.6		"	62.5		93.7	75.9-123			
Surrogate: 4-Bromofluorobenzene	59.8		"	62.5		95.6	83-123			
LCS (OK26002-BS1)					Prepared: 11/26/2010 Analyzed: 11/29/2010					
Benzene	0.20	0.004	mg/kg	0.200		99.5	64.2-124			
Toluene	0.18	0.004	"	0.200		91.8	63.9-119			
Surrogate: 1,2-Dichloroethane-d4	43.7		ug/L	62.5		69.9	70.3-123			S-GC
Surrogate: Toluene-d8	57.4		"	62.5		91.9	75.9-123			
Surrogate: 4-Bromofluorobenzene	58.1		"	62.5		92.9	83-123			
Matrix Spike (OK26002-MS1)					Source: X011158-01	Prepared: 11/26/2010 Analyzed: 11/29/2010				
Benzene	0.23	0.004	mg/kg	0.200	ND	115	64.2-124			
Toluene	0.21	0.004	"	0.200	ND	106	63.9-119			
Surrogate: 1,2-Dichloroethane-d4	48.0		ug/L	62.5		76.8	70.3-123			
Surrogate: Toluene-d8	57.6		"	62.5		92.1	75.9-123			
Surrogate: 4-Bromofluorobenzene	57.4		"	62.5		91.9	83-123			
Matrix Spike Dup (OK26002-MSD1)					Source: X011158-01	Prepared: 11/26/2010 Analyzed: 11/29/2010				
Benzene	0.22	0.004	mg/kg	0.200	ND	108	64.2-124	5.75	25	
Toluene	0.19	0.004	"	0.200	ND	97.1	63.9-119	8.50	25	
Surrogate: 1,2-Dichloroethane-d4	46.9		ug/L	62.5		75.1	70.3-123			
Surrogate: Toluene-d8	58.1		"	62.5		93.0	75.9-123			
Surrogate: 4-Bromofluorobenzene	56.6		"	62.5		90.5	83-123			

Origins Laboratory, Inc.



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Petroleum Development Corporatior

3801 Carson Ave.

Evans

CO

80534

Tony Cooper

Project Number: [none]

Project: Cozzens

Volatile Organic Compounds by EPA Method 8260B - 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 OK26002 - EPA 5030B

Origins Laboratory, Inc.



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Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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