



12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Report Summary

Friday July 15, 2011

Report Number: L524706

Samples Received: 07/07/11

Client Project: 900546.0005.010

Description: 605-2 Background

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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REPORT OF ANALYSIS

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 15, 2011

Date Received : July 07, 2011
Description : 605-2 Background
Sample ID : 605-2 BACKGROUND-N 14 IN
Collected By : CJB
Collection Date : 07/06/11 11:55

ESC Sample # : L524706-01

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	3.6	3.5	10.	mg/kg	J	3060A/7	07/12/11	5
Chromium, Trivalent	37.	0.17	10.	mg/kg		Calc.	07/09/11	1
ORP	76.			mV		2580	07/12/11	1
pH	6.9			su		9045D	07/09/11	1
Sodium Adsorption Ratio	1.1					Calc.	07/10/11	1
Specific Conductance	29.			umhos/cm		9050AMo	07/13/11	1
Mercury	0.0064	0.0015	0.020	mg/kg	J	7471	07/08/11	1
Arsenic	6.5	0.32	1.0	mg/kg		6010B	07/09/11	1
Barium	300	0.050	0.25	mg/kg		6010B	07/09/11	1
Cadmium	0.83	0.040	0.25	mg/kg		6010B	07/09/11	1
Chromium	41.	0.085	0.50	mg/kg		6010B	07/09/11	1
Copper	17.	0.21	1.0	mg/kg		6010B	07/09/11	1
Lead	18.	0.090	0.25	mg/kg		6010B	07/09/11	1
Nickel	24.	0.26	1.0	mg/kg		6010B	07/09/11	1
Selenium	U	1.6	5.0	mg/kg	O	6010B	07/09/11	5
Silver	U	0.16	0.50	mg/kg		6010B	07/09/11	1
Zinc	56.	0.34	1.5	mg/kg		6010B	07/09/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg	J3	8015D/G	07/08/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	81.5			% Rec.		602/801	07/08/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	07/08/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	07/08/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	07/08/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	07/08/11	5
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	07/08/11	5
Dibromofluoromethane	107.			% Rec.		8260B	07/08/11	5
a,a,a-Trifluorotoluene	108.			% Rec.		8260B	07/08/11	5
4-Bromofluorobenzene	90.9			% Rec.		8260B	07/08/11	5
TPH (GC/FID) High Fraction	1.4	0.77	4.0	mg/kg	J	3546/DR	07/08/11	1
Surrogate recovery(%) o-Terphenyl	67.7			% Rec.		3546/DR	07/08/11	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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Reported: 07/15/11 07:49 Printed: 07/15/11 10:56
L524706-01 (PH) - 6.9@20.6c



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REPORT OF ANALYSIS

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 15, 2011

Date Received : July 07, 2011
Description : 605-2 Background
Sample ID : 605-2 BACKGROUND-N 14 IN
Collected By : CJB
Collection Date : 07/06/11 11:55

ESC Sample # : L524706-01

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	07/09/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	07/09/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	07/09/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	07/09/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	07/09/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	07/09/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	07/09/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	07/09/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	07/09/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	07/09/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	07/09/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	07/09/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	07/09/11	1
2-Chloronaphthalene	0.0017	0.00060	0.0060	mg/kg	J	8270C-S	07/09/11	1
Surrogate Recovery								
Nitrobenzene-d5	99.8			% Rec.		8270C-S	07/09/11	1
2-Fluorobiphenyl	96.5			% Rec.		8270C-S	07/09/11	1
p-Terphenyl-d14	105.			% Rec.		8270C-S	07/09/11	1

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760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 15, 2011

Date Received : July 07, 2011
Description : 605-2 Background
Sample ID : 605-2 BACKGROUND-NW 12 IN
Collected By : CJB
Collection Date : 07/06/11 12:07

ESC Sample # : L524706-02

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	3.5	10.	mg/kg	O	3060A/7	07/12/11	5
Chromium, Trivalent	35.	0.17	10.	mg/kg		Calc.	07/09/11	1
ORP	89.			mV		2580	07/12/11	1
pH	6.5			su		9045D	07/09/11	1
Sodium Adsorption Ratio	0.68					Calc.	07/10/11	1
Specific Conductance	24.			umhos/cm		9050AMo	07/13/11	1
Mercury	0.012	0.0015	0.020	mg/kg	J	7471	07/08/11	1
Arsenic	9.6	0.32	1.0	mg/kg		6010B	07/09/11	1
Barium	290	0.050	0.25	mg/kg		6010B	07/09/11	1
Cadmium	0.89	0.040	0.25	mg/kg		6010B	07/09/11	1
Chromium	35.	0.085	0.50	mg/kg		6010B	07/09/11	1
Copper	22.	0.21	1.0	mg/kg		6010B	07/09/11	1
Lead	19.	0.090	0.25	mg/kg		6010B	07/09/11	1
Nickel	23.	0.26	1.0	mg/kg		6010B	07/09/11	1
Selenium	U	1.6	5.0	mg/kg	O	6010B	07/09/11	5
Silver	U	0.16	0.50	mg/kg		6010B	07/09/11	1
Zinc	63.	0.34	1.5	mg/kg		6010B	07/09/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	07/08/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	88.7			% Rec.		602/801	07/08/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	07/08/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	07/08/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	07/08/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	07/08/11	5
Surrogate Recovery								
Toluene-d8	98.6			% Rec.		8260B	07/08/11	5
Dibromofluoromethane	108.			% Rec.		8260B	07/08/11	5
a,a,a-Trifluorotoluene	105.			% Rec.		8260B	07/08/11	5
4-Bromofluorobenzene	89.2			% Rec.		8260B	07/08/11	5
TPH (GC/FID) High Fraction	3.2	0.77	4.0	mg/kg	J	3546/DR	07/09/11	1
Surrogate recovery (%) o-Terphenyl	64.2			% Rec.		3546/DR	07/09/11	1

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Reported: 07/15/11 07:49 Printed: 07/15/11 10:56
L524706-02 (CR6) - Diluted due to sample color interference.
L524706-02 (PH) - 6.5@20.6c



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REPORT OF ANALYSIS

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 15, 2011

Date Received : July 07, 2011
Description : 605-2 Background
Sample ID : 605-2 BACKGROUND-NW 12 IN
Collected By : CJB
Collection Date : 07/06/11 12:07

ESC Sample # : L524706-02

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	07/09/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	07/09/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	07/09/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	07/09/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	07/09/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	07/09/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	07/09/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	07/09/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	07/09/11	1
Phenanthrene	0.0011	0.00074	0.0060	mg/kg	J	8270C-S	07/09/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	07/09/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	07/09/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	07/09/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	07/09/11	1
Surrogate Recovery								
Nitrobenzene-d5	113.			% Rec.		8270C-S	07/09/11	1
2-Fluorobiphenyl	106.			% Rec.		8270C-S	07/09/11	1
p-Terphenyl-d14	157.			% Rec.	J1	8270C-S	07/09/11	1

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L524706-02 (CR6) - Diluted due to sample color interference.

L524706-02 (PH) - 6.5@20.6c



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REPORT OF ANALYSIS

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 15, 2011

Date Received : July 07, 2011
Description : 605-2 Background
Sample ID : 605-2 BACKGROUND-SW 7 IN
Collected By : CJB
Collection Date : 07/06/11 12:23

ESC Sample # : L524706-03

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	4.3	3.5	10.	mg/kg	J	3060A/7	07/12/11	5
Chromium, Trivalent	30.	0.17	10.	mg/kg		Calc.	07/09/11	1
ORP	92.			mV		2580	07/12/11	1
pH	6.4			su		9045D	07/09/11	1
Sodium Adsorption Ratio	1.0					Calc.	07/10/11	1
Specific Conductance	25.			umhos/cm		9050AMo	07/13/11	1
Mercury	0.011	0.0015	0.020	mg/kg	J	7471	07/08/11	1
Arsenic	9.0	0.32	1.0	mg/kg		6010B	07/09/11	1
Barium	360	0.050	0.25	mg/kg		6010B	07/09/11	1
Cadmium	0.68	0.040	0.25	mg/kg		6010B	07/09/11	1
Chromium	34.	0.085	0.50	mg/kg		6010B	07/09/11	1
Copper	21.	0.21	1.0	mg/kg		6010B	07/09/11	1
Lead	20.	0.090	0.25	mg/kg		6010B	07/09/11	1
Nickel	23.	0.26	1.0	mg/kg		6010B	07/09/11	1
Selenium	U	1.6	5.0	mg/kg	O	6010B	07/09/11	5
Silver	U	0.16	0.50	mg/kg		6010B	07/09/11	1
Zinc	57.	0.34	1.5	mg/kg		6010B	07/09/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	07/08/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	90.6			% Rec.		602/801	07/08/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	07/08/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	07/08/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	07/08/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	07/08/11	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	07/08/11	5
Dibromofluoromethane	113.			% Rec.		8260B	07/08/11	5
a,a,a-Trifluorotoluene	106.			% Rec.		8260B	07/08/11	5
4-Bromofluorobenzene	89.5			% Rec.		8260B	07/08/11	5
TPH (GC/FID) High Fraction	5.6	0.77	4.0	mg/kg		3546/DR	07/09/11	1
Surrogate recovery (%) o-Terphenyl	61.0			% Rec.		3546/DR	07/09/11	1

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L524706-03 (PH) - 6.4@20.6c



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REPORT OF ANALYSIS

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OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 15, 2011

Date Received : July 07, 2011
Description : 605-2 Background
Sample ID : 605-2 BACKGROUND-SW 7 IN

ESC Sample # : L524706-03

Site ID :

Collected By : CJB
Collection Date : 07/06/11 12:23

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	07/09/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	07/09/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	07/09/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	07/09/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	07/09/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	07/09/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	07/09/11	1
Fluorene	U	0.00055	0.0060	mg/kg		8270C-S	07/09/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	07/09/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	07/09/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	07/09/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	07/09/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	07/09/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	07/09/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	07/09/11	1
Surrogate Recovery								
Nitrobenzene-d5	103.			% Rec.		8270C-S	07/09/11	1
2-Fluorobiphenyl	99.5			% Rec.		8270C-S	07/09/11	1
p-Terphenyl-d14	151.			% Rec.	J1	8270C-S	07/09/11	1

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OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 15, 2011

Date Received : July 07, 2011
Description : 605-2 Background
Sample ID : 605-2 BACKGROUND-S 6 IN
Collected By : CJB
Collection Date : 07/06/11 12:36

ESC Sample # : L524706-04

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	10.	7.1	20.	mg/kg	J	3060A/7	07/12/11	10
Chromium, Trivalent	19.	0.17	20.	mg/kg		Calc.	07/09/11	1
ORP	130			mV		2580	07/13/11	1
pH	6.3			su		9045D	07/09/11	1
Sodium Adsorption Ratio	0.40					Calc.	07/10/11	1
Specific Conductance	35.			umhos/cm		9050AMo	07/13/11	1
Mercury	0.013	0.0015	0.020	mg/kg	J	7471	07/08/11	1
Arsenic	6.6	0.32	1.0	mg/kg		6010B	07/09/11	1
Barium	250	0.050	0.25	mg/kg		6010B	07/09/11	1
Cadmium	0.76	0.040	0.25	mg/kg		6010B	07/09/11	1
Chromium	29.	0.085	0.50	mg/kg		6010B	07/09/11	1
Copper	16.	0.21	1.0	mg/kg		6010B	07/09/11	1
Lead	17.	0.090	0.25	mg/kg		6010B	07/09/11	1
Nickel	19.	0.26	1.0	mg/kg		6010B	07/09/11	1
Selenium	U	1.6	5.0	mg/kg	O	6010B	07/09/11	5
Silver	U	0.16	0.50	mg/kg		6010B	07/09/11	1
Zinc	56.	0.34	1.5	mg/kg		6010B	07/09/11	1
TPH (GC/FID) Low Fraction	U	0.25	0.50	mg/kg		8015D/G	07/08/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.9			% Rec.		602/801	07/08/11	5
Benzene	U	0.0021	0.0050	mg/kg		8260B	07/08/11	5
Toluene	U	0.0017	0.025	mg/kg		8260B	07/08/11	5
Ethylbenzene	U	0.0016	0.0050	mg/kg		8260B	07/08/11	5
Total Xylenes	U	0.0023	0.015	mg/kg		8260B	07/08/11	5
Surrogate Recovery								
Toluene-d8	98.8			% Rec.		8260B	07/08/11	5
Dibromofluoromethane	111.			% Rec.		8260B	07/08/11	5
a,a,a-Trifluorotoluene	102.			% Rec.		8260B	07/08/11	5
4-Bromofluorobenzene	79.6			% Rec.		8260B	07/08/11	5
TPH (GC/FID) High Fraction	8.7	0.77	4.0	mg/kg		3546/DR	07/09/11	1
Surrogate recovery(%) o-Terphenyl	77.6			% Rec.		3546/DR	07/09/11	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.
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Reported: 07/15/11 07:49 Printed: 07/15/11 10:56
L524706-04 (PH) - 6.3@20.7c



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Blair Rollins
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 15, 2011

Date Received : July 07, 2011
Description : 605-2 Background
Sample ID : 605-2 BACKGROUND-S 6 IN
Collected By : CJB
Collection Date : 07/06/11 12:36

ESC Sample # : L524706-04

Site ID :

Project # : 900546.0005.010

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0060	mg/kg		8270C-S	07/13/11	1
Acenaphthene	U	0.00071	0.0060	mg/kg		8270C-S	07/13/11	1
Acenaphthylene	U	0.00057	0.0060	mg/kg		8270C-S	07/13/11	1
Benzo(a)anthracene	U	0.00092	0.0060	mg/kg		8270C-S	07/13/11	1
Benzo(a)pyrene	U	0.00062	0.0060	mg/kg		8270C-S	07/13/11	1
Benzo(b)fluoranthene	U	0.00082	0.0060	mg/kg		8270C-S	07/13/11	1
Benzo(g,h,i)perylene	U	0.0012	0.0060	mg/kg		8270C-S	07/13/11	1
Benzo(k)fluoranthene	U	0.0013	0.0060	mg/kg		8270C-S	07/13/11	1
Chrysene	U	0.0011	0.0060	mg/kg		8270C-S	07/13/11	1
Dibenz(a,h)anthracene	U	0.0011	0.0060	mg/kg		8270C-S	07/13/11	1
Fluoranthene	U	0.0010	0.0060	mg/kg		8270C-S	07/13/11	1
Fluorene	0.0026	0.00055	0.0060	mg/kg	J	8270C-S	07/13/11	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0060	mg/kg		8270C-S	07/13/11	1
Naphthalene	U	0.00065	0.0060	mg/kg		8270C-S	07/13/11	1
Phenanthrene	U	0.00074	0.0060	mg/kg		8270C-S	07/13/11	1
Pyrene	U	0.00059	0.0060	mg/kg		8270C-S	07/13/11	1
1-Methylnaphthalene	U	0.00079	0.0060	mg/kg		8270C-S	07/13/11	1
2-Methylnaphthalene	U	0.00059	0.0060	mg/kg		8270C-S	07/13/11	1
2-Chloronaphthalene	U	0.00060	0.0060	mg/kg		8270C-S	07/13/11	1
Surrogate Recovery								
Nitrobenzene-d5	81.7			% Rec.		8270C-S	07/13/11	1
2-Fluorobiphenyl	76.4			% Rec.		8270C-S	07/13/11	1
p-Terphenyl-d14	82.8			% Rec.		8270C-S	07/13/11	1

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Note:

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Reported: 07/15/11 07:49 Printed: 07/15/11 10:56
L524706-04 (PH) - 6.3@20.7c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L524706-01	WG544559	SAMP	Selenium	R1753892	O
	WG544594	SAMP	TPH (GC/FID) High Fraction	R1752752	J
	WG544696	SAMP	Chromium, Hexavalent	R1758210	J
	WG544542	SAMP	Mercury	R1752892	J
	WG544629	SAMP	TPH (GC/FID) Low Fraction	R1753916	J3
L524706-02	WG544727	SAMP	2-Chloronaphthalene	R1753830	J
	WG544559	SAMP	Selenium	R1753892	O
	WG544704	SAMP	TPH (GC/FID) High Fraction	R1755532	J
	WG544696	SAMP	Chromium, Hexavalent	R1758210	O
	WG544542	SAMP	Mercury	R1752892	J
L524706-03	WG544727	SAMP	Phenanthrene	R1753830	J
	WG544727	SAMP	p-Terphenyl-d14	R1753830	J1
	WG544559	SAMP	Selenium	R1753892	O
	WG544696	SAMP	Chromium, Hexavalent	R1758210	J
	WG544542	SAMP	Mercury	R1752892	J
L524706-04	WG544727	SAMP	p-Terphenyl-d14	R1753830	J1
	WG544559	SAMP	Selenium	R1753892	O
	WG544696	SAMP	Chromium, Hexavalent	R1758210	J
	WG544542	SAMP	Mercury	R1752892	J
	WG545224	SAMP	Fluorene	R1760252	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J3	The associated batch QC was outside the established quality control range for precision.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
07/15/11 at 10:56:41

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L524706-01 Account: OXYGJCO Received: 07/07/11 09:00 Due Date: 07/14/11 00:00 RPT Date: 07/15/11 07:49
Sample: L524706-02 Account: OXYGJCO Received: 07/07/11 09:00 Due Date: 07/14/11 00:00 RPT Date: 07/15/11 07:49
Sample: L524706-03 Account: OXYGJCO Received: 07/07/11 09:00 Due Date: 07/14/11 00:00 RPT Date: 07/15/11 07:49
Sample: L524706-04 Account: OXYGJCO Received: 07/07/11 09:00 Due Date: 07/14/11 00:00 RPT Date: 07/15/11 07:49