

Coles Environmental Consulting, Inc.

750 South Rosemont Road, West Linn, OR 97068
503-636-3102, Fax: 503-699-1980

23 October 2012

Mr. Christopher Maurer
VCP Site Manager
Toxics Cleanup Program, HQ
Department of Ecology
PO Box 47600
Olympia, WA 98504-7600

RECEIVED

OCT 25 2012

**Dept of Ecology
Toxics Cleanup Program**

Dear Mr. Maurer:

Regarding: **Site Investigation Summary Report for the Short Stop 1 Site,
6317 California Avenue SW, Seattle, WA
Ecology Facility ID No. 92888299; VCP Project No. NW1610**

This letter provides an update on environmental conditions at the subject property. The previous summary report to you was dated 23 April 2012. After that, the site owners (Bud Pontius and Bob Pontius) and I meet with you on 6 June 2012 to discuss the project and gain your insight for moving the site toward closure. During that meeting, you requested that two more rounds of groundwater monitoring be conducted for only the new monitoring well MW-6 (the downgradient, offsite well). Those rounds were conducted on 12 June 2012 and 12 September 2012.

The attached diagram provides data flags for all of the groundwater samples collected during CEC's involvement in the project. The 12 June 2012 sample had 2.42 $\mu\text{g/l}$ PCE detected and the 12 September 2012 sample had no PCE detected above the method reporting limit of 0.5 $\mu\text{g/l}$. Thus, four sets of samples from MW-6 had no PCE detected above the MTCA threshold of 5.0 $\mu\text{g/l}$ during the period 27 September 2011 through 12 September 2012. Therefore, on behalf of the site owners and consistent with our 6 June 2012 meeting, I request that Ecology close the groundwater issue at this site.

Please call me at 503-636-3102 or email me at dcolescec@comcast.net should you have any question concerning this summary report.

Sincerely yours,

David G. Coles, M.S., L.G.
Principal, Geochemist



DAVID G. COLES

expires 01/08/13

Attachments: one site diagram
two Apex Laboratories reports

cc: Bud Pontius
Project File

Serving the regulated community
Member of the Northwest Environmental & Energy Professionals State of Oregon Flexible Network
Member, Northwest Environmental Business Council



SHORT STOP SITE, SHOWING SUMMARY OF GROUNDWATER MONITORING DATA

PCE results MW-4

02/19/07	<0.50 µg/l
05/21/07	<u>2.20</u> µg/l
08/20/07	<u>1.98</u> µg/l
11/20/07	<u>4.32</u> µg/l
08/25/08	<u>7.17</u> µg/l
01/15/09	<u>5.01</u> µg/l
03/22/11	<0.50 µg/l
dup.	<0.50 µg/l
06/24/11	<0.50 µg/l
09/27/11	<0.50 µg/l
02/14/12	<0.50 µg/l*

*m,p-xylene 1.42 µg/l
o-xylene 0.54 µg/l

PCE results MW-5

02/19/07	<0.50 µg/l
05/21/07	<u>1.31</u> µg/l
08/20/07	<u>1.88</u> µg/l
11/20/07	<u>5.44</u> µg/l
08/25/08	<u>0.84</u> µg/l
01/15/09	<u>1.18</u> µg/l
03/22/11	<0.50 µg/l
06/24/11	<0.50 µg/l
09/27/11	<0.50 µg/l
02/14/12	<0.50 µg/l

PCE results MW-1

02/19/07	<0.50 µg/l
05/21/07	<0.50 µg/l
08/20/07	<0.50 µg/l
11/20/07	<0.50 µg/l
08/25/08	<0.50 µg/l
01/15/09	<u>0.62</u> µg/l
03/22/11	<0.50 µg/l
06/24/11	<0.50 µg/l
09/27/11	<0.50 µg/l
02/13/12	<0.50 µg/l

PCE results MW-2

02/19/07	<0.50 µg/l
05/21/07	<0.50 µg/l
08/20/07	<0.50 µg/l
11/20/07	<u>0.57</u> µg/l
08/25/08	<0.50 µg/l
01/15/09	<u>1.88</u> µg/l
03/22/11	<0.50 µg/l
06/24/11	<0.50 µg/l
09/27/11	<0.50 µg/l
02/13/12	<0.50 µg/l

PCE results MW-3

02/19/07	<0.50 µg/l
05/21/07	<u>2.70</u> µg/l
08/20/07	<u>2.48</u> µg/l
dup	<u>2.77</u> µg/l
11/20/07	<u>3.58</u> µg/l
dup	<u>3.38</u> µg/l
08/25/08	<u>9.26</u> µg/l*
01/15/09	<u>0.69</u> µg/l
03/22/11	<0.50 µg/l
06/24/11	<0.50 µg/l
dup	<0.50 µg/l
09/27/11	<0.50 µg/l
02/14/12	<0.50 µg/l
*TCE	<u>0.65</u> µg/l

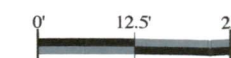
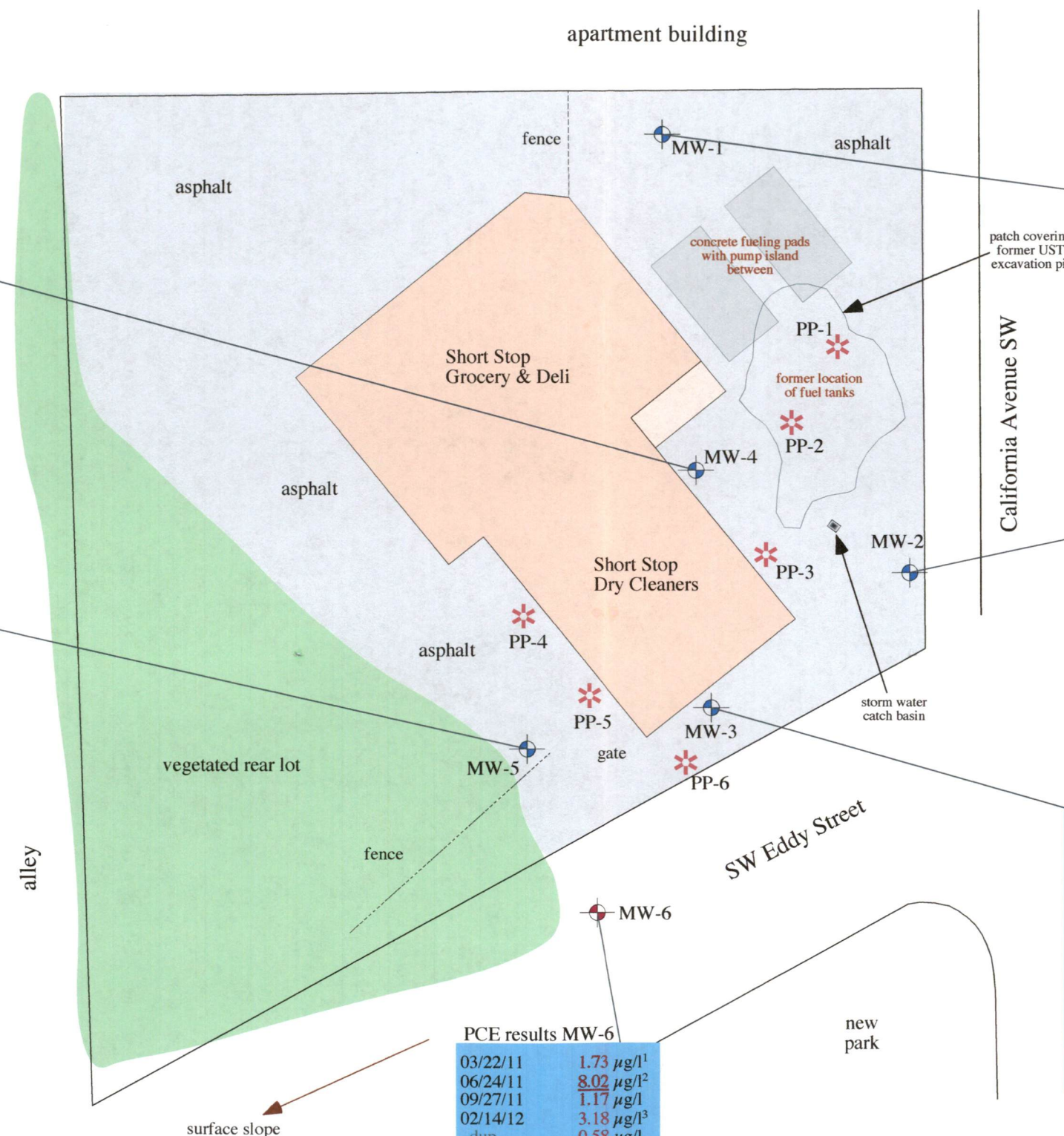
PCE results MW-6

03/22/11	<u>1.73</u> µg/l ¹
06/24/11	<u>8.02</u> µg/l ²
09/27/11	<u>1.17</u> µg/l
02/14/12	<u>3.18</u> µg/l ³
dup	<u>0.58</u> µg/l
06/12/12	<u>2.42</u> µg/l
09/12/12	<0.5 µg/l
¹ cis-1,2-DCE	= <u>0.66</u> µg/l
² TCE	= <u>4.55</u> µg/l
² cis-1,2-DCE	= <u>3.79</u> µg/l
³ TCE	= <u>0.58</u> µg/l

Concentrations in **red** indicate detected analytes;
underlined values exceed MCTA Method A levels.

- * = 2/11 probe locations
- = 2/11 monitoring-well location
- = existing monitoring-well locations

Note: Locations of site features approximate. Well locations based on diagrams from Stemen Environmental, Inc. (15 May 2003). Well designations from stamped numbers on well monuments.



 Coles Environmental Consulting, Inc. 750 S. Rosemont Rd. West Linn, OR (503) 636-3102, fax (503) 699-1980	
Approved By	Date/Revision
	10/18/12
	Rev. 12

Figure 1. Diagram showing analysis results for groundwater monitoring rounds at the Short Stop 1 site, 6317, California Avenue, SW, Seattle, WA.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, June 28, 2012

David Coles
Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

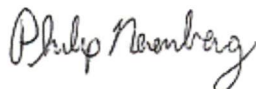
RE: Short Stop #1 / [none]

Enclosed are the results of analyses for work order A12F230, which was received by the laboratory on 6/13/2012 at 3:00:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

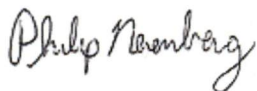
Reported:
06/28/12 16:34

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	A12F230-01	Water	06/12/12 14:25	06/13/12 15:00

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
06/28/12 16:34

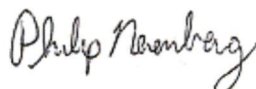
ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-6 (A12F230-01)			Matrix: Water		Batch: 1206307			
Acetone	ND	---	20.0	ug/L	1	06/14/12 15:55	EPA 8260B	ESTa
Benzene	ND	---	0.250	"	"	"	"	
Bromobenzene	ND	---	0.500	"	"	"	"	
Bromochloromethane	ND	---	1.00	"	"	"	"	
Bromodichloromethane	ND	---	1.00	"	"	"	"	
Bromoform	ND	---	1.00	"	"	"	"	
Bromomethane	ND	---	5.00	"	"	"	"	
2-Butanone (MEK)	ND	---	10.0	"	"	"	"	
n-Butylbenzene	ND	---	1.00	"	"	"	"	
sec-Butylbenzene	ND	---	1.00	"	"	"	"	
tert-Butylbenzene	ND	---	1.00	"	"	"	"	
Carbon tetrachloride	ND	---	0.500	"	"	"	"	
Chlorobenzene	ND	---	0.500	"	"	"	"	
Chloroethane	ND	---	5.00	"	"	"	"	
Chloroform	ND	---	1.00	"	"	"	"	
Chloromethane	ND	---	5.00	"	"	"	"	
2-Chlorotoluene	ND	---	1.00	"	"	"	"	
4-Chlorotoluene	ND	---	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	---	5.00	"	"	"	"	
Dibromochloromethane	ND	---	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	"	"	
Dibromomethane	ND	---	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	---	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	---	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	---	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	---	1.00	"	"	"	"	
1,1-Dichloroethane	ND	---	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
1,1-Dichloroethene	ND	---	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	---	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	---	0.500	"	"	"	"	
1,2-Dichloropropane	ND	---	0.500	"	"	"	"	
1,3-Dichloropropane	ND	---	1.00	"	"	"	"	
2,2-Dichloropropane	ND	---	1.00	"	"	"	"	
1,1-Dichloropropene	ND	---	1.00	"	"	"	"	

Apex Laboratories

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.



Philip Nerenberg, Lab Director

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
06/28/12 16:34

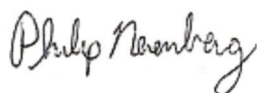
ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-6 (A12F230-01)			Matrix: Water		Batch: 1206307			
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	"	EPA 8260B	
trans-1,3-Dichloropropene	ND	---	1.00	"	"	"	"	
Ethylbenzene	ND	---	0.500	"	"	"	"	
Hexachlorobutadiene	ND	---	5.00	"	"	"	"	
2-Hexanone	ND	---	10.0	"	"	"	"	
Isopropylbenzene	ND	---	1.00	"	"	"	"	
4-Isopropyltoluene	ND	---	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Methylene chloride	ND	---	5.00	"	"	"	"	
Naphthalene	ND	---	2.00	"	"	"	"	
n-Propylbenzene	ND	---	0.500	"	"	"	"	
Styrene	ND	---	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	---	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	---	0.500	"	"	"	"	
Tetrachloroethene (PCE)	2.42	---	0.500	"	"	"	"	
Toluene	ND	---	1.00	"	"	"	"	
1,2,3-Trichlorobenzene	ND	---	2.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	---	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	---	0.500	"	"	"	"	
Trichloroethene (TCE)	ND	---	0.500	"	"	"	"	
Trichlorofluoromethane	ND	---	2.00	"	"	"	"	
1,2,3-Trichloropropane	ND	---	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	"	"	
Vinyl chloride	ND	---	0.500	"	"	"	"	
m,p-Xylene	ND	---	1.00	"	"	"	"	
o-Xylene	ND	---	0.500	"	"	"	"	
<i>Surrogate: Dibromofluoromethane (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>1,4-Difluorobenzene (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"	

Apex Laboratories

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.



Philip Nerenberg, Lab Director

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

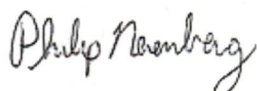
Reported:
06/28/12 16:34

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1206307 - EPA 5030B						Water						
Blank (1206307-BLK1)						Prepared: 06/14/12 09:25 Analyzed: 06/14/12 12:02						
EPA 8260B												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	ESTa
Benzene	ND	---	0.250	"	"	---	---	---	---	---	---	
Bromobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Bromochloromethane	ND	---	1.00	"	"	---	---	---	---	---	---	
Bromodichloromethane	ND	---	1.00	"	"	---	---	---	---	---	---	
Bromoform	ND	---	1.00	"	"	---	---	---	---	---	---	
Bromomethane	ND	---	5.00	"	"	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	10.0	"	"	---	---	---	---	---	---	
n-Butylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.500	"	"	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Chloroethane	ND	---	5.00	"	"	---	---	---	---	---	---	
Chloroform	ND	---	1.00	"	"	---	---	---	---	---	---	
Chloromethane	ND	---	5.00	"	"	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	1.00	"	"	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	5.00	"	"	---	---	---	---	---	---	
Dibromochloromethane	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	---	---	---	---	---	
Dibromomethane	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	1.00	"	"	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.500	"	"	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.500	"	"	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.500	"	"	---	---	---	---	---	---	
1,2-Dichloropropane	ND	---	0.500	"	"	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	"	"	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	"	"	---	---	---	---	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068Project: **Short Stop #1**
Project Number: [none]
Project Manager: David ColesReported:
06/28/12 16:34

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1206307 - EPA 5030B						Water						
Blank (1206307-BLK1)						Prepared: 06/14/12 09:25 Analyzed: 06/14/12 12:02						
1,1-Dichloropropene	ND	---	1.00	ug/L	"	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	"	"	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	"	"	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	"	"	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	---	---	---	---	---	
Methylene chloride	ND	---	5.00	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	"	"	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Styrene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
1,1,1,2,2-Tetrachloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.500	"	"	---	---	---	---	---	---	
Toluene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	"	"	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.500	"	"	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	"	"	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.500	"	"	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	"	"	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	"	"	---	---	---	---	---	---	

Surr: Dibromofluoromethane (Surr)	Recovery: 99 %	Limits: 80-120 %	Dilution: 1x
1,4-Difluorobenzene (Surr)	100 %	80-120 %	"
Toluene-d8 (Surr)	99 %	80-120 %	"
4-Bromofluorobenzene (Surr)	103 %	80-120 %	"

LCS (1206307-BS1)

Prepared: 06/14/12 09:25 Analyzed: 06/14/12 11:10

Apex Laboratories

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.



Philip Nerenberg, Lab Director

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
06/28/12 16:34

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1206307 - EPA 5030B						Water						
LCS (1206307-BS1)						Prepared: 06/14/12 09:25 Analyzed: 06/14/12 11:10						
EPA 8260B												
Acetone	25.6	---	20.0	ug/L	1	40.0	---	64	70-130%	---	---	ESTa
Benzene	21.8	---	0.250	"	"	20.0	---	109	"	---	---	
Bromobenzene	22.6	---	0.500	"	"	"	---	113	"	---	---	
Bromochloromethane	22.8	---	1.00	"	"	"	---	114	"	---	---	
Bromodichloromethane	23.4	---	1.00	"	"	"	---	117	"	---	---	
Bromoform	20.6	---	1.00	"	"	"	---	103	"	---	---	
Bromomethane	19.8	---	5.00	"	"	"	---	99	"	---	---	
2-Butanone (MEK)	33.1	---	10.0	"	"	40.0	---	83	"	---	---	
n-Butylbenzene	23.1	---	1.00	"	"	20.0	---	116	"	---	---	
sec-Butylbenzene	23.0	---	1.00	"	"	"	---	115	"	---	---	
tert-Butylbenzene	22.4	---	1.00	"	"	"	---	112	"	---	---	
Carbon tetrachloride	21.8	---	0.500	"	"	"	---	109	"	---	---	
Chlorobenzene	22.5	---	0.500	"	"	"	---	112	"	---	---	
Chloroethane	20.7	---	5.00	"	"	"	---	103	"	---	---	
Chloroform	22.4	---	1.00	"	"	"	---	112	"	---	---	
Chloromethane	20.0	---	5.00	"	"	"	---	100	"	---	---	
2-Chlorotoluene	23.5	---	1.00	"	"	"	---	117	"	---	---	
4-Chlorotoluene	22.7	---	1.00	"	"	"	---	113	"	---	---	
1,2-Dibromo-3-chloropropane	23.4	---	5.00	"	"	"	---	117	"	---	---	
Dibromochloromethane	23.1	---	1.00	"	"	"	---	116	"	---	---	
1,2-Dibromoethane (EDB)	23.7	---	0.500	"	"	"	---	118	"	---	---	
Dibromomethane	22.4	---	1.00	"	"	"	---	112	"	---	---	
1,2-Dichlorobenzene	23.0	---	0.500	"	"	"	---	115	"	---	---	
1,3-Dichlorobenzene	22.8	---	0.500	"	"	"	---	114	"	---	---	
1,4-Dichlorobenzene	22.2	---	0.500	"	"	"	---	111	"	---	---	
Dichlorodifluoromethane	21.0	---	1.00	"	"	"	---	105	"	---	---	
1,1-Dichloroethane	22.9	---	0.500	"	"	"	---	115	"	---	---	
1,2-Dichloroethane (EDC)	22.4	---	0.500	"	"	"	---	112	"	---	---	
1,1-Dichloroethene	20.9	---	0.500	"	"	"	---	105	"	---	---	
cis-1,2-Dichloroethene	21.9	---	0.500	"	"	"	---	110	"	---	---	
trans-1,2-Dichloroethene	22.5	---	0.500	"	"	"	---	112	"	---	---	
1,2-Dichloropropane	23.1	---	0.500	"	"	"	---	116	"	---	---	
1,3-Dichloropropane	22.4	---	1.00	"	"	"	---	112	"	---	---	
2,2-Dichloropropane	21.5	---	1.00	"	"	"	---	108	"	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
06/28/12 16:34

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

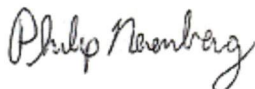
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1206307 - EPA 5030B						Water						
LCS (1206307-BS1)						Prepared: 06/14/12 09:25 Analyzed: 06/14/12 11:10						
1,1-Dichloropropene	21.3	---	1.00	ug/L	"	"	---	107	"	---	---	
cis-1,3-Dichloropropene	22.3	---	1.00	"	"	"	---	111	"	---	---	
trans-1,3-Dichloropropene	22.5	---	1.00	"	"	"	---	112	"	---	---	
Ethylbenzene	22.7	---	0.500	"	"	"	---	113	"	---	---	
Hexachlorobutadiene	22.6	---	5.00	"	"	"	---	113	"	---	---	
2-Hexanone	38.4	---	10.0	"	"	40.0	---	96	"	---	---	
Isopropylbenzene	22.6	---	1.00	"	"	20.0	---	113	"	---	---	
4-Isopropyltoluene	24.0	---	1.00	"	"	"	---	120	"	---	---	
4-Methyl-2-pentanone (MiBK)	42.9	---	10.0	"	"	40.0	---	107	"	---	---	
Methyl tert-butyl ether (MTBE)	19.4	---	1.00	"	"	20.0	---	97	"	---	---	
Methylene chloride	22.0	---	5.00	"	"	"	---	110	"	---	---	
Naphthalene	24.0	---	2.00	"	"	"	---	120	"	---	---	
n-Propylbenzene	22.5	---	0.500	"	"	"	---	112	"	---	---	
Styrene	23.2	---	1.00	"	"	"	---	116	"	---	---	
1,1,1,2-Tetrachloroethane	22.9	---	0.500	"	"	"	---	115	"	---	---	
1,1,2,2-Tetrachloroethane	23.2	---	0.500	"	"	"	---	116	"	---	---	
Tetrachloroethene (PCE)	21.9	---	0.500	"	"	"	---	109	"	---	---	
Toluene	21.9	---	1.00	"	"	"	---	110	"	---	---	
1,2,3-Trichlorobenzene	24.0	---	2.00	"	"	"	---	120	"	---	---	
1,2,4-Trichlorobenzene	24.0	---	2.00	"	"	"	---	120	"	---	---	
1,1,1-Trichloroethane	21.8	---	0.500	"	"	"	---	109	"	---	---	
1,1,2-Trichloroethane	22.6	---	0.500	"	"	"	---	113	"	---	---	
Trichloroethene (TCE)	22.9	---	0.500	"	"	"	---	115	"	---	---	
Trichlorofluoromethane	15.6	---	2.00	"	"	"	---	78	"	---	---	
1,2,3-Trichloropropane	23.4	---	1.00	"	"	"	---	117	"	---	---	
1,2,4-Trimethylbenzene	23.1	---	1.00	"	"	"	---	115	"	---	---	
1,3,5-Trimethylbenzene	23.4	---	1.00	"	"	"	---	117	"	---	---	
Vinyl chloride	22.1	---	0.500	"	"	"	---	111	"	---	---	
m,p-Xylene	44.9	---	1.00	"	"	40.0	---	112	"	---	---	
o-Xylene	22.8	---	0.500	"	"	20.0	---	114	"	---	---	

Surr: Dibromofluoromethane (Surr)	Recovery: 98 %	Limits: 80-120 %	Dilution: 1x
1,4-Difluorobenzene (Surr)	99 %	80-120 %	"
Toluene-d8 (Surr)	98 %	80-120 %	"
4-Bromofluorobenzene (Surr)	101 %	80-120 %	"

Duplicate (1206307-DUP2)

Prepared: 06/14/12 11:25 Analyzed: 06/14/12 16:21

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
06/28/12 16:34

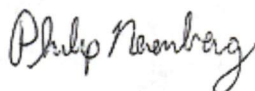
QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1206307 - EPA 5030B						Water						
Duplicate (1206307-DUP2)						Prepared: 06/14/12 11:25 Analyzed: 06/14/12 16:21						
QC Source Sample: MW-6 (A12F230-01)												
EPA 8260B												
Acetone	ND	---	20.0	ug/L	1	---	ND	---	---	---	30%	ESTa
Benzene	ND	---	0.250	"	"	---	ND	---	---	---	30%	
Bromobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Bromoform	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Bromomethane	ND	---	5.00	"	"	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	10.0	"	"	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Chloroethane	ND	---	5.00	"	"	---	ND	---	---	---	30%	
Chloroform	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Chloromethane	ND	---	5.00	"	"	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	5.00	"	"	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Dibromomethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.500	"	"	---	0.410	---	---	***	30%	
trans-1,2-Dichloroethene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	1.00	"	"	---	ND	---	---	---	30%	

Apex Laboratories

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.



Philip Nerenberg, Lab Director

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068Project: **Short Stop #1**
Project Number: [none]
Project Manager: David ColesReported:
06/28/12 16:34

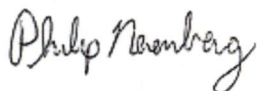
QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1206307 - EPA 5030B						Water						
Duplicate (1206307-DUP2)						Prepared: 06/14/12 11:25 Analyzed: 06/14/12 16:21						
QC Source Sample: MW-6 (A12F230-01)												
2,2-Dichloropropane	ND	---	1.00	ug/L	"	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	5.00	"	"	---	ND	---	---	---	30%	
2-Hexanone	ND	---	10.0	"	"	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	"	"	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Methylene chloride	ND	---	5.00	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Styrene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	0.520	---	0.500	"	"	---	2.42	---	---	129	30%	Q-17
Toluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.500	"	"	---	0.440	---	---	***	30%	
Trichlorofluoromethane	ND	---	2.00	"	"	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.500	"	"	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Surr: Dibromofluoromethane (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
1,4-Difluorobenzene (Surr)		103 %		80-120 %		"						
Toluene-d8 (Surr)		101 %		80-120 %		"						

Apex Laboratories

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.



Philip Nerenberg, Lab Director

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
06/28/12 16:34

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	------	--------------	---------------	------	-------------	-----	-----------	-------

Batch 1206307 - EPA 5030B

Water

Duplicate (1206307-DUP2)

Prepared: 06/14/12 11:25 Analyzed: 06/14/12 16:21

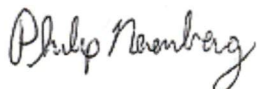
QC Source Sample: MW-6 (A12F230-01)

Surr: 4-Bromofluorobenzene (Surr)

Recovery: 101 % Limits: 80-120 %

Dilution: 1x

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
06/28/12 16:34

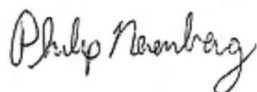
SAMPLE PREPARATION INFORMATION

Volatile Organic Compounds by EPA 8260B

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1206307							
A12F230-01	Water	EPA 8260B	06/12/12 14:25	06/14/12 11:25	5mL/5mL	5mL/5mL	1.00

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
06/28/12 16:34

Notes and Definitions

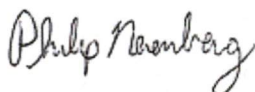
Qualifiers:

- ESTa Result reported as an Estimated Value. Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
- Q-17 RPD between original and duplicate sample is outside of established control limits.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
06/28/12 16:34

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: Coles Environ. Consult.		Project Name: Short Stop		Project #																											
Address: 750 Rosemont Road, West Linn		Phone:		Email: dcoles@colesenv.com																											
Sampled by: D.G. Coles		Fac:		Lab #																											
ANALYSIS REQUEST																															
Site Location: OR	W.A.																														
Other:																															
SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS																										
MW-6		6/12/12	1435 W 3																												
<table border="1"> <tr><td>AL, SR, AS, BS, HS, CS, MS, PS, TS, VS, WS, X, Y, Z</td><td></td></tr> <tr><td>TCCLP Metals (B)</td><td></td></tr> <tr><td>HCHA Metals (B)</td><td></td></tr> <tr><td>600 TTD</td><td></td></tr> <tr><td>800 PCBs</td><td></td></tr> <tr><td>820 SDA PAHs</td><td></td></tr> <tr><td>820 SVOC</td><td></td></tr> <tr><td>820 BTEX</td><td></td></tr> <tr><td>820 RBDN VOCs</td><td></td></tr> <tr><td>820 VOC</td><td></td></tr> <tr><td>NWTPH-Gs</td><td></td></tr> <tr><td>NWTPH-Bs</td><td></td></tr> <tr><td>NWTPH-ACID</td><td></td></tr> </table>						AL, SR, AS, BS, HS, CS, MS, PS, TS, VS, WS, X, Y, Z		TCCLP Metals (B)		HCHA Metals (B)		600 TTD		800 PCBs		820 SDA PAHs		820 SVOC		820 BTEX		820 RBDN VOCs		820 VOC		NWTPH-Gs		NWTPH-Bs		NWTPH-ACID	
AL, SR, AS, BS, HS, CS, MS, PS, TS, VS, WS, X, Y, Z																															
TCCLP Metals (B)																															
HCHA Metals (B)																															
600 TTD																															
800 PCBs																															
820 SDA PAHs																															
820 SVOC																															
820 BTEX																															
820 RBDN VOCs																															
820 VOC																															
NWTPH-Gs																															
NWTPH-Bs																															
NWTPH-ACID																															
<table border="1"> <tr><td>1200-Z</td><td></td></tr> <tr><td>1200-COLS</td><td></td></tr> <tr><td>TOTAL BHS TCLP</td><td></td></tr> </table>						1200-Z		1200-COLS		TOTAL BHS TCLP																					
1200-Z																															
1200-COLS																															
TOTAL BHS TCLP																															
<table border="1"> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> <tr><td>5</td><td></td></tr> <tr><td>6</td><td></td></tr> <tr><td>7</td><td></td></tr> <tr><td>8</td><td></td></tr> <tr><td>9</td><td></td></tr> <tr><td>10</td><td></td></tr> </table>						1		2		3		4		5		6		7		8		9		10							
1																															
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
<table border="1"> <tr> <td>Normal Turn Around Time (TAT) = 7-10 Business Days</td> <td>YES</td> <td>NO</td> </tr> <tr> <td>TAT Requested (circle)</td> <td>1 Day</td> <td>2 Day</td> </tr> <tr> <td></td> <td>4 DAY</td> <td>5 DAY</td> </tr> <tr> <td></td> <td>Other:</td> <td></td> </tr> </table>						Normal Turn Around Time (TAT) = 7-10 Business Days	YES	NO	TAT Requested (circle)	1 Day	2 Day		4 DAY	5 DAY		Other:															
Normal Turn Around Time (TAT) = 7-10 Business Days	YES	NO																													
TAT Requested (circle)	1 Day	2 Day																													
	4 DAY	5 DAY																													
	Other:																														
<table border="1"> <tr> <td>RECEIVED BY:</td> <td>RECEIVED BY:</td> </tr> <tr> <td>David Coles</td> <td>Bud Pontius</td> </tr> <tr> <td>Date: 6/12/12</td> <td>Date: 6/13/12</td> </tr> <tr> <td>Printed Name: D.G. Coles</td> <td>Printed Name: Bud Pontius</td> </tr> <tr> <td>Time: 1500</td> <td>Time: 1500</td> </tr> <tr> <td>Company: LEC</td> <td>Company: ATEX</td> </tr> </table>						RECEIVED BY:	RECEIVED BY:	David Coles	Bud Pontius	Date: 6/12/12	Date: 6/13/12	Printed Name: D.G. Coles	Printed Name: Bud Pontius	Time: 1500	Time: 1500	Company: LEC	Company: ATEX														
RECEIVED BY:	RECEIVED BY:																														
David Coles	Bud Pontius																														
Date: 6/12/12	Date: 6/13/12																														
Printed Name: D.G. Coles	Printed Name: Bud Pontius																														
Time: 1500	Time: 1500																														
Company: LEC	Company: ATEX																														

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Tuesday, September 25, 2012

David Coles
Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

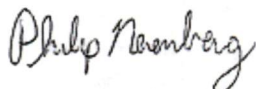
RE: Short Stop #1 / [none]

Enclosed are the results of analyses for work order A12I216, which was received by the laboratory on 9/13/2012 at 11:29:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

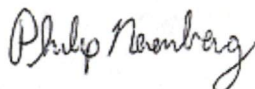
Reported:
09/25/12 11:43

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	A121216-01	Water	09/12/12 15:20	09/13/12 11:29

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
09/25/12 11:43

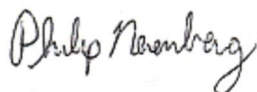
ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-6 (A12I216-01)			Matrix: Water		Batch: 1209307			
Acetone	ND	---	20.0	ug/L	1	09/14/12 14:33	EPA 8260B	
Benzene	ND	---	0.250	"	"	"	"	
Bromobenzene	ND	---	0.500	"	"	"	"	
Bromochloromethane	ND	---	1.00	"	"	"	"	
Bromodichloromethane	ND	---	1.00	"	"	"	"	
Bromoform	ND	---	1.00	"	"	"	"	
Bromomethane	ND	---	5.00	"	"	"	"	Q-30
2-Butanone (MEK)	ND	---	10.0	"	"	"	"	
n-Butylbenzene	ND	---	1.00	"	"	"	"	
sec-Butylbenzene	ND	---	1.00	"	"	"	"	
tert-Butylbenzene	ND	---	1.00	"	"	"	"	
Carbon tetrachloride	ND	---	0.500	"	"	"	"	
Chlorobenzene	ND	---	0.500	"	"	"	"	
Chloroethane	ND	---	5.00	"	"	"	"	
Chloroform	ND	---	1.00	"	"	"	"	
Chloromethane	ND	---	5.00	"	"	"	"	Q-30
2-Chlorotoluene	ND	---	1.00	"	"	"	"	
4-Chlorotoluene	ND	---	1.00	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	---	5.00	"	"	"	"	
Dibromochloromethane	ND	---	1.00	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	"	"	
Dibromomethane	ND	---	1.00	"	"	"	"	
1,2-Dichlorobenzene	ND	---	0.500	"	"	"	"	
1,3-Dichlorobenzene	ND	---	0.500	"	"	"	"	
1,4-Dichlorobenzene	ND	---	0.500	"	"	"	"	
Dichlorodifluoromethane	ND	---	1.00	"	"	"	"	
1,1-Dichloroethane	ND	---	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
1,1-Dichloroethene	ND	---	0.500	"	"	"	"	
cis-1,2-Dichloroethene	ND	---	0.500	"	"	"	"	
trans-1,2-Dichloroethene	ND	---	0.500	"	"	"	"	
1,2-Dichloropropane	ND	---	0.500	"	"	"	"	
1,3-Dichloropropane	ND	---	1.00	"	"	"	"	
2,2-Dichloropropane	ND	---	1.00	"	"	"	"	
1,1-Dichloropropene	ND	---	1.00	"	"	"	"	

Apex Laboratories

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.



Philip Nerenberg, Lab Director

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
09/25/12 11:43

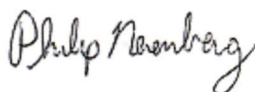
ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW-6 (A12I216-01)			Matrix: Water		Batch: 1209307			
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	"	EPA 8260B	
trans-1,3-Dichloropropene	ND	---	1.00	"	"	"	"	
Ethylbenzene	ND	---	0.500	"	"	"	"	
Hexachlorobutadiene	ND	---	5.00	"	"	"	"	
2-Hexanone	ND	---	10.0	"	"	"	"	
Isopropylbenzene	ND	---	1.00	"	"	"	"	
4-Isopropyltoluene	ND	---	1.00	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Methylene chloride	ND	---	5.00	"	"	"	"	
Naphthalene	ND	---	2.00	"	"	"	"	
n-Propylbenzene	ND	---	0.500	"	"	"	"	
Styrene	ND	---	1.00	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	---	0.500	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	---	0.500	"	"	"	"	
Tetrachloroethene (PCE)	ND	---	0.500	"	"	"	"	
Toluene	ND	---	1.00	"	"	"	"	
1,2,3-Trichlorobenzene	ND	---	2.00	"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	2.00	"	"	"	"	
1,1,1-Trichloroethane	ND	---	0.500	"	"	"	"	
1,1,2-Trichloroethane	ND	---	0.500	"	"	"	"	
Trichloroethene (TCE)	ND	---	0.500	"	"	"	"	
Trichlorofluoromethane	ND	---	2.00	"	"	"	"	
1,2,3-Trichloropropane	ND	---	1.00	"	"	"	"	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	"	"	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	"	"	
Vinyl chloride	ND	---	0.500	"	"	"	"	
m,p-Xylene	ND	---	1.00	"	"	"	"	
o-Xylene	ND	---	0.500	"	"	"	"	
Surrogate: Dibromofluoromethane (Surr)			Recovery: 102 %	Limits: 80-120 %	"	"	"	
1,4-Difluorobenzene (Surr)			102 %	Limits: 80-120 %	"	"	"	
Toluene-d8 (Surr)			97 %	Limits: 80-120 %	"	"	"	
4-Bromofluorobenzene (Surr)			97 %	Limits: 80-120 %	"	"	"	

Apex Laboratories

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.



Philip Nerenberg, Lab Director

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

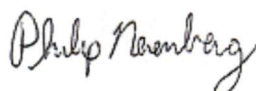
Reported:
09/25/12 11:43

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1209307 - EPA 5030B						Water						
Blank (1209307-BLK1)						Prepared: 09/14/12 10:01 Analyzed: 09/14/12 13:05						
EPA 8260B												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	
Benzene	ND	---	0.250	"	"	---	---	---	---	---	---	
Bromobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Bromochloromethane	ND	---	1.00	"	"	---	---	---	---	---	---	
Bromodichloromethane	ND	---	1.00	"	"	---	---	---	---	---	---	
Bromoform	ND	---	1.00	"	"	---	---	---	---	---	---	
Bromomethane	ND	---	5.00	"	"	---	---	---	---	---	---	Q-30
2-Butanone (MEK)	ND	---	10.0	"	"	---	---	---	---	---	---	
n-Butylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.500	"	"	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Chloroethane	ND	---	5.00	"	"	---	---	---	---	---	---	
Chloroform	ND	---	1.00	"	"	---	---	---	---	---	---	
Chloromethane	ND	---	5.00	"	"	---	---	---	---	---	---	Q-30
2-Chlorotoluene	ND	---	1.00	"	"	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	5.00	"	"	---	---	---	---	---	---	
Dibromochloromethane	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	---	---	---	---	---	
Dibromomethane	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	1.00	"	"	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.500	"	"	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.500	"	"	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.500	"	"	---	---	---	---	---	---	
1,2-Dichloropropane	ND	---	0.500	"	"	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	"	"	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	"	"	---	---	---	---	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
09/25/12 11:43

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1209307 - EPA 5030B						Water						
Blank (1209307-BLK1)						Prepared: 09/14/12 10:01 Analyzed: 09/14/12 13:05						
1,1-Dichloropropene	ND	---	1.00	ug/L	"	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	"	"	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	"	"	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	"	"	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	---	---	---	---	---	
Methylene chloride	ND	---	5.00	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	"	"	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Styrene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.500	"	"	---	---	---	---	---	---	
Toluene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	"	"	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	"	"	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.500	"	"	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	"	"	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.500	"	"	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	"	"	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	"	"	---	---	---	---	---	---	

Surr: Dibromofluoromethane (Surr)

Recovery: 105 %

Limits: 80-120 %

Dilution: 1x

1,4-Difluorobenzene (Surr)

107 %

80-120 %

"

Toluene-d8 (Surr)

98 %

80-120 %

"

4-Bromofluorobenzene (Surr)

99 %

80-120 %

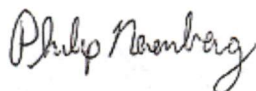
"

LCS (1209307-BS1)

Prepared: 09/14/12 10:01 Analyzed: 09/14/12 12:07

Apex Laboratories

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.



Philip Nerenberg, Lab Director

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

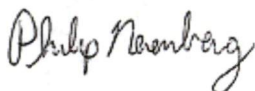
Reported:
09/25/12 11:43

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1209307 - EPA 5030B						Water						
LCS (1209307-BS1)						Prepared: 09/14/12 10:01 Analyzed: 09/14/12 12:07						
EPA 8260B												
Acetone	84.8	---	20.0	ug/L	1	40.0	---	212	70-130%	---	---	EST
Benzene	20.2	---	0.250	"	"	20.0	---	101	"	---	---	
Bromobenzene	18.7	---	0.500	"	"	"	---	94	"	---	---	
Bromochloromethane	21.6	---	1.00	"	"	"	---	108	"	---	---	
Bromodichloromethane	21.4	---	1.00	"	"	"	---	107	"	---	---	
Bromoform	17.5	---	1.00	"	"	"	---	87	"	---	---	
Bromomethane	13.4	---	5.00	"	"	"	---	67	"	---	---	Q-30
2-Butanone (MEK)	63.6	---	10.0	"	"	40.0	---	159	"	---	---	EST
n-Butylbenzene	19.8	---	1.00	"	"	20.0	---	99	"	---	---	
sec-Butylbenzene	19.8	---	1.00	"	"	"	---	99	"	---	---	
tert-Butylbenzene	20.1	---	1.00	"	"	"	---	101	"	---	---	
Carbon tetrachloride	20.8	---	0.500	"	"	"	---	104	"	---	---	
Chlorobenzene	18.9	---	0.500	"	"	"	---	94	"	---	---	
Chloroethane	19.8	---	5.00	"	"	"	---	99	"	---	---	
Chloroform	20.6	---	1.00	"	"	"	---	103	"	---	---	
Chloromethane	13.3	---	5.00	"	"	"	---	67	"	---	---	Q-30
2-Chlorotoluene	19.8	---	1.00	"	"	"	---	99	"	---	---	
4-Chlorotoluene	20.3	---	1.00	"	"	"	---	102	"	---	---	
1,2-Dibromo-3-chloropropane	19.8	---	5.00	"	"	"	---	99	"	---	---	
Dibromochloromethane	19.1	---	1.00	"	"	"	---	95	"	---	---	
1,2-Dibromoethane (EDB)	19.7	---	0.500	"	"	"	---	98	"	---	---	
Dibromomethane	20.6	---	1.00	"	"	"	---	103	"	---	---	
1,2-Dichlorobenzene	18.8	---	0.500	"	"	"	---	94	"	---	---	
1,3-Dichlorobenzene	18.7	---	0.500	"	"	"	---	93	"	---	---	
1,4-Dichlorobenzene	18.0	---	0.500	"	"	"	---	90	"	---	---	
Dichlorodifluoromethane	17.2	---	1.00	"	"	"	---	86	"	---	---	
1,1-Dichloroethane	20.5	---	0.500	"	"	"	---	102	"	---	---	
1,2-Dichloroethane (EDC)	21.0	---	0.500	"	"	"	---	105	"	---	---	
1,1-Dichloroethene	17.0	---	0.500	"	"	"	---	85	"	---	---	
cis-1,2-Dichloroethene	21.1	---	0.500	"	"	"	---	105	"	---	---	
trans-1,2-Dichloroethene	20.4	---	0.500	"	"	"	---	102	"	---	---	
1,2-Dichloropropane	20.6	---	0.500	"	"	"	---	103	"	---	---	
1,3-Dichloropropane	19.5	---	1.00	"	"	"	---	97	"	---	---	
2,2-Dichloropropane	20.6	---	1.00	"	"	"	---	103	"	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
09/25/12 11:43

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1209307 - EPA 5030B						Water						
LCS (1209307-BS1)						Prepared: 09/14/12 10:01 Analyzed: 09/14/12 12:07						
1,1-Dichloropropene	19.2	---	1.00	ug/L	"	"	---	96	"	---	---	
cis-1,3-Dichloropropene	19.0	---	1.00	"	"	"	---	95	"	---	---	
trans-1,3-Dichloropropene	19.3	---	1.00	"	"	"	---	96	"	---	---	
Ethylbenzene	19.2	---	0.500	"	"	"	---	96	"	---	---	
Hexachlorobutadiene	19.9	---	5.00	"	"	"	---	100	"	---	---	
2-Hexanone	50.8	---	10.0	"	"	40.0	---	127	"	---	---	
Isopropylbenzene	19.2	---	1.00	"	"	20.0	---	96	"	---	---	
4-Isopropyltoluene	20.0	---	1.00	"	"	"	---	100	"	---	---	
4-Methyl-2-pentanone (MiBK)	42.1	---	10.0	"	"	40.0	---	105	"	---	---	
Methyl tert-butyl ether (MTBE)	19.3	---	1.00	"	"	20.0	---	97	"	---	---	
Methylene chloride	20.0	---	5.00	"	"	"	---	100	"	---	---	
Naphthalene	20.8	---	2.00	"	"	"	---	104	"	---	---	
n-Propylbenzene	20.2	---	0.500	"	"	"	---	101	"	---	---	
Styrene	20.2	---	1.00	"	"	"	---	101	"	---	---	
1,1,1,2-Tetrachloroethane	19.4	---	0.500	"	"	"	---	97	"	---	---	
1,1,2,2-Tetrachloroethane	20.0	---	0.500	"	"	"	---	100	"	---	---	
Tetrachloroethene (PCE)	18.1	---	0.500	"	"	"	---	90	"	---	---	
Toluene	18.2	---	1.00	"	"	"	---	91	"	---	---	
1,2,3-Trichlorobenzene	19.5	---	2.00	"	"	"	---	97	"	---	---	
1,2,4-Trichlorobenzene	19.6	---	2.00	"	"	"	---	98	"	---	---	
1,1,1-Trichloroethane	20.7	---	0.500	"	"	"	---	104	"	---	---	
1,1,2-Trichloroethane	19.8	---	0.500	"	"	"	---	99	"	---	---	
Trichloroethene (TCE)	20.3	---	0.500	"	"	"	---	101	"	---	---	
Trichlorofluoromethane	17.6	---	2.00	"	"	"	---	88	"	---	---	
1,2,3-Trichloropropane	21.0	---	1.00	"	"	"	---	105	"	---	---	
1,2,4-Trimethylbenzene	20.6	---	1.00	"	"	"	---	103	"	---	---	
1,3,5-Trimethylbenzene	20.6	---	1.00	"	"	"	---	103	"	---	---	
Vinyl chloride	15.7	---	0.500	"	"	"	---	79	"	---	---	
m,p-Xylene	38.6	---	1.00	"	"	40.0	---	97	"	---	---	
o-Xylene	19.9	---	0.500	"	"	20.0	---	99	"	---	---	

Surr: Dibromofluoromethane (Surr)

Recovery: 106 %

Limits: 80-120 %

Dilution: 1x

1,4-Difluorobenzene (Surr)

108 %

80-120 %

"

Toluene-d8 (Surr)

99 %

80-120 %

"

4-Bromofluorobenzene (Surr)

99 %

80-120 %

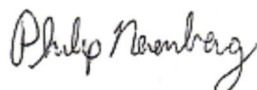
"

Duplicate (1209307-DUP1)

Prepared: 09/14/12 12:01 Analyzed: 09/14/12 15:02

Apex Laboratories

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.



Philip Nerenberg, Lab Director

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

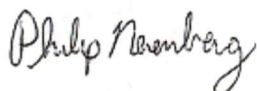
Reported:
09/25/12 11:43

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1209307 - EPA 5030B						Water						
Duplicate (1209307-DUP1)						Prepared: 09/14/12 12:01 Analyzed: 09/14/12 15:02						
QC Source Sample: MW-6 (A12I216-01)												
EPA 8260B												
Acetone	ND	---	20.0	ug/L	1	---	ND	---	---	---	30%	
Benzene	ND	---	0.250	"	"	---	ND	---	---	---	30%	
Bromobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Bromoform	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Bromomethane	ND	---	5.00	"	"	---	ND	---	---	---	30%	Q-30
2-Butanone (MEK)	ND	---	10.0	"	"	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Chloroethane	ND	---	5.00	"	"	---	ND	---	---	---	30%	
Chloroform	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Chloromethane	ND	---	5.00	"	"	---	ND	---	---	---	30%	Q-30
2-Chlorotoluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	5.00	"	"	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Dibromomethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	1.00	"	"	---	ND	---	---	---	30%	

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

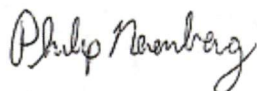
Reported:
09/25/12 11:43

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	Limits	RPD	RPD Limit	Notes
Batch 1209307 - EPA 5030B						Water						
Duplicate (1209307-DUP1)						Prepared: 09/14/12 12:01 Analyzed: 09/14/12 15:02						
QC Source Sample: MW-6 (A12I216-01)												
2,2-Dichloropropane	ND	---	1.00	ug/L	"	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	5.00	"	"	---	ND	---	---	---	30%	
2-Hexanone	ND	---	10.0	"	"	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	"	"	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Methylene chloride	ND	---	5.00	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Styrene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	0.500	"	"	---	0.410	---	---	***	30%	
Toluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	2.00	"	"	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.500	"	"	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Surr: Dibromofluoromethane (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
1,4-Difluorobenzene (Surr)		103 %		80-120 %		"						
Toluene-d8 (Surr)		97 %		80-120 %		"						

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

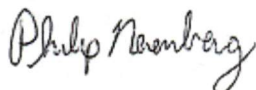
Reported:
09/25/12 11:43

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1209307 - EPA 5030B						Water						
Duplicate (1209307-DUP1)				Prepared: 09/14/12 12:01 Analyzed: 09/14/12 15:02								
QC Source Sample: MW-6 (A12I216-01)												
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 99 %			Limits: 80-120 %			Dilution: 1x				

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
09/25/12 11:43

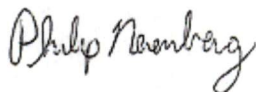
SAMPLE PREPARATION INFORMATION

Volatile Organic Compounds by EPA 8260B

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1209307							
A12I216-01	Water	EPA 8260B	09/12/12 15:20	09/14/12 12:01	5mL/5mL	5mL/5mL	1.00

Apex Laboratories



Philip Nerenberg, Lab Director

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.

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
09/25/12 11:43

Notes and Definitions

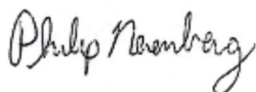
Qualifiers:

- EST Result reported as an Estimated Value. Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-30 Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch
QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank
Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories



Philip Nerenberg, Lab Director

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.

**12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax**

Coles Environmental
750 S. Rosemont Rd.
West Linn, OR 97068

Project: **Short Stop #1**
Project Number: [none]
Project Manager: David Coles

Reported:
09/25/12 11:43

[illegible]

Apex Laboratories

Philip Neenberg

Philip Nerenberg, Lab Director

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.