

June 25, 2007

Mr Kipp Eckert
ConocoPhillips Site Manager
P O. Box 923
Bothell, Washington 98041

Re: First Quarter 2007 Remediation System Status Report
600 Westlake Avenue N., Seattle, Washington
ConocoPhillips Site No. 255353
Delta Project No. WA255-3538-1

Dear Mr Eckert:

Delta Environmental Consultants, Inc. (Delta) is pleased to submit this First Quarter 2007 Remediation System Status Report for the ConocoPhillips Site No. 255353 located at 600 Westlake Avenue N. in Seattle, Washington



WORK PERFORMED THIS QUARTER [First Quarter 2007]

- Monthly operation and maintenance (O&M) of the remediation system. The remediation system consists of an air sparge (AS) unit operating at fifteen AS wells within a sparge trench, a deep air sparge (DAS) unit at four DAS wells, and a vapor extraction (VE) unit to extract combined vapors from five on-site VE wells and three off-site VE wells, and to capture sparge vapors from two sections of horizontal piping within the sparge trench (east and west VE trenches).
- On February 23, 2007, Siemens Water Technologies Corporation completed the change out of the first carbon unit. The system was started on the same day after being shut down since April 27, 2006.
- On March 19, 2007, Delta performed remedial pilot testing on the VE wells that were installed in Terry Avenue. The results of the pilot testing will be summarized in a separate document.

WORK PROPOSED FOR NEXT QUARTER [Second – 2007]

- Continue monthly O&M of the remediation system.
- Twelve newly installed offsite VE wells were connected to the existing VE system on April 16, 2007. The new VE wells are located in Terry Ave and were installed as part of the Westlake/Mercer Cleanup Project.

a member of:



4006 148TH AVENUE NE REDMOND, WASHINGTON 98052 USA
PHONE 425.882.3528 / 800.477.7411 FAX 425.869.1892 WWW.DELTAENV.COM

VE SUMMARY

Extraction Equipment: Rotron EN6F5L VE blower

Offgas Treatment Equipment: H2Oil 55-gallon moisture separator;
Two 1,800-pound activated carbon units

Permits for Discharge: PSCAA No. 8905 (air) (NPDES, POTW, etc.)

Start-up Date: 8/20/03

Reporting Period: 1/01/07 - 3/31/07

Days in Operation During Period: 27 (days)

Total Days in Operation Since Start-Up: 878 (days)

Percent Operating Time During Period: 30% (%)

System Alarms and Shutdowns: None

VE Points Extracted During Period: On-site VE wells, East & West VE trenches

Average Influent Vacuum: 4.0 (inches H2O)

Average Vapor Influent Flow Rate: 210 (SCFM)

Maximum Vapor Influent Concentration for Period (PID): 1.0 (ppmv)

Maximum Vapor Effluent Concentration for Period (PID): 0.7 (ppmv)

Total Hydrocarbon Removal for Period: 3.0 (lbs)

Cumulative Hydrocarbon Removal to Date: 1,205.0 (since 8/20/03 startup) (lbs)

Analytical Results of TPH Concentration in Offgas Emission Sample: <10 mg/m3 (3/28/06) (ppmv)

AS SUMMARY

Sparging Equipment: Sutortbilt air sparge blower

Start-up Date: 8/20/03

Reporting Period: 1/01/07 - 3/31/07

Days in Operation During Period: 27 (days)

Total Days in Operation Since Start-Up: 878 (days)

Percent Operating Time During Period: 30% (%)

Number of Wells On-Line: 15 AS Wells (AS-1 through AS-15)

Average System Injection Pressure: 4.9 (psig)

Average System Flow Rate: 6.9 (per AS point) (SCFM)

DAS SUMMARY

Sparging Equipment: Gast 6066 Compressor

Start-up Date: 9/22/04

Reporting Period:	<u>1/01/07 - 03/31/07</u>
Days in Operation During Period:	<u>27</u> (days)
Total Days in Operation Since Start-Up:	<u>511</u> (days)
Percent Operating Time During Period:	<u>30%</u> (%)
Number of Wells On-Line:	<u>4 DAS Wells (DAS-2 through DAS-5)</u>
Average System Injection Pressure:	<u>9</u> (psig)
Average System Flow Rate:	<u>6 (per DAS point)</u> (SCFM)

DISCUSSION

System Operation and Maintenance

Delta conducted monthly site visits on February 23, and March 21, 2007 to perform O&M of the remediation system during the First Quarter 2007. The remediation system was re-activated on February 23, 2007 following a carbon change out on the first vessel. Delta performed pilot testing on the new VE wells installed on Terry Avenue as part of the Westlake/Mercer Cleanup Project. The results of the pilot testing will be summarized in a separate report. The twelve new VE wells were connected to the current VE system on April 16, 2007.

The AS and VE units operated an estimated 27 days over the reporting period. A summary of VE unit operation parameters is presented in Table 1. Operation summaries of the AS and DAS units are presented in Tables 2 and 3, respectively.

Hydrocarbon Removal and Vapor Emissions

During this reporting period, the VE unit effectively removed hydrocarbons from the site at an average rate of 0.11 pounds per day (3.0 pounds over the operational period (First Quarter 2007)). An estimated total of 1,205 pounds of hydrocarbons have been removed from the subsurface by vapor extraction since startup of the current remediation system. Hydrocarbon concentrations in vapor emissions were below the limits of the PSCAA permit based on monthly field monitoring conducted during site visits. A summary of the estimated hydrocarbons removed by the VE unit is included in Table 1.


LIMITATIONS

The services described in this report were performed in accordance with generally accepted professional consulting principles and practices. No other warranty, either expressed or implied, is made. These services were performed in accordance with terms established with our client. This report is solely for the use of our client and reliance on any part of this report by a third party is at such party's sole risk.

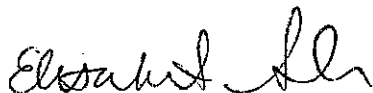
Delta appreciates the opportunity to provide environmental services for ConocoPhillips Company. Please call Elisabeth Silver at 425-498-7736 if you have any questions regarding the contents of this report.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



Jaime L. KC
Senior Field Technician



Elisabeth Silver, LG.
Senior Project Manager

ELISABETH S. SILVER

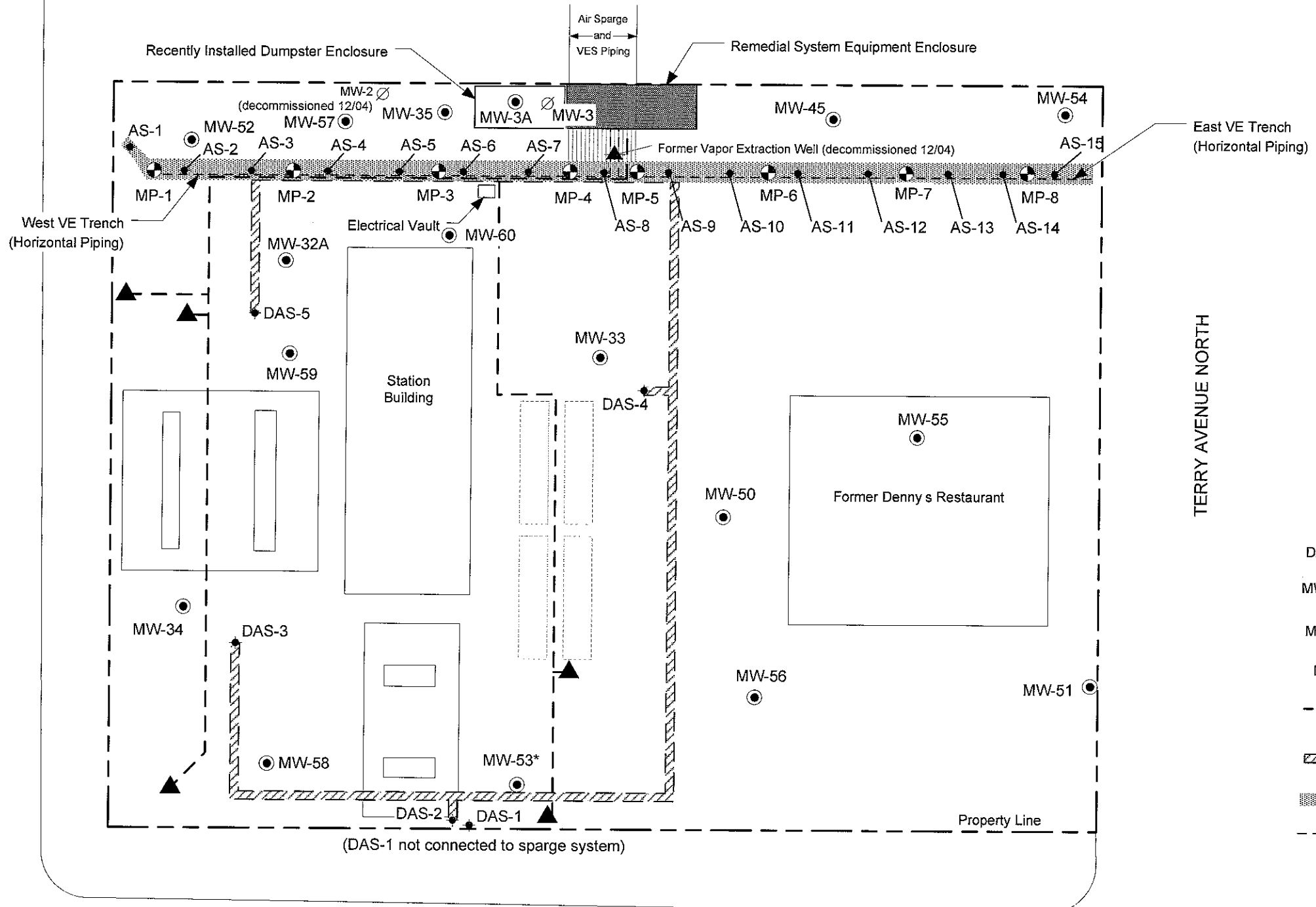
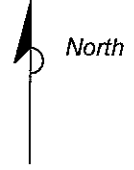
cc: LUST Coordinator, WA State Dept. of Ecology – Northwest Regional Office, Bellevue, WA 98008

Enc: Figure 1 – Remedial System Site Map
Table 1 – VE Unit and Vapor Treatment Operation Summary
Table 2 – Air Sparge Unit Operational Summary
Table 3 – Deep Air Sparge Unit Operational Summary
Laboratory Analytical Report and Chain of Custody Documentation

WESTLAKE AVENUE NORTH

TERRY AVENUE NORTH

MERCER STREET



LEGEND

- AS-1 ◆ BIOSPARGE TRENCH AIR SPARGING WELL
- DAS-2 ◆ DEEP AIR SPARGING WELL
- MW-51 ● GROUNDWATER MONITORING WELL
- MW-3 ∅ ABANDONED OR DESTROYED GROUNDWATER MONITORING WELL
- MP-1 ● MULTIPURPOSE WELL (MONITORING OR REMEDIATION)
- - ▲ ON-SITE VAPOR EXTRACTION WELL AND APPROXIMATE LOCATION OF VE CONVEYANCE PIPING
- ▨ TRENCHING FOR DEEP SPARGE CONVEYANCE PIPING
- ▤ BIOSPARGE TRENCHING
- - - BIOSPARGE TRENCH HORIZONTAL VAPOR EXTRACTION PIPING

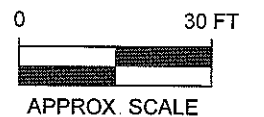



FIGURE 1
REMEDIATION SYSTEM SITE MAP

CONOCO PHILLIPS SITE NO. 255353
600 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON

PROJECT NO. WA255-3507-1	DRAWN BY TS 2/3/06
FILE NO. WA255-3507-1	PREPARED BY TS 2/3/06
REVISION NO. 0	REVIEWED BY EL



Delta
Environmental
Consultants, Inc.

Site map based on drawing prepared by GeoEngineers dated 6/03

**TABLE 1
VE UNIT AND VAPOR TREATMENT OPERATION SUMMARY**

ConocoPhillips Site No 255353
600 Westlake Avenue North
Seattle, Washington

Date	Operational Time Since Last Event (days)	Power Reading (KWH)	Vapor Extraction Vacuum (inches H2O)	Average Flowrate ¹ (SCFM)	Influent Petroleum Hydrocarbon Concentration ² (ppm)	Petroleum Hydrocarbon Concentration Between Carbons ³ (ppm)	Emission Petroleum Hydrocarbon Concentration ⁴ (ppm)	Estimated Petroleum Hydrocarbons Removed During Operating Period ⁵ (pounds)
01/29/04	45 ⁶	NM	3.0	192	1.2	0.0	0.0	4.2
02/28/04	30	32,432	3.0	192	1.2	0.0	0.0	2.8
03/30/04	31	35,592	3.0	192	2.7	0.2	0.0	6.4
04/28/04	29	38,516	3.5	183	0.1	0.1	0.1	0.2
05/27/04	29	41,465	3.5	183	9.8 ⁹	0.1	0.1	20.9
06/22/04	26	44,045	3.5	183	4.2 ⁹	0.1	0.1	8.0
07/22/04	30	47,097	3.5	183	17.9 ⁹	11.1	1.8	39.4
08/16/04	23	49,449	3.5	183	6.4	0.2	0.1	10.8
09/21/04	26	52,907	3.7	175	10.5	0.3	0.2	19.2
10/28/04	37	58,559	3.5	183	14.1	5.4	1.1	38.3
11/22/04	25	62,578	3.5	183	4.9	0.1	0.0	9.0
12/17/04 ¹⁰	25	66,601	4.0	175	10.7	6.6	2.3	18.8
01/27/05 ¹¹	21	70,013	4.0	175	1.0	0.6	0.0	1.5
02/17/05	21	73,083	4.0	175	28.9	15.8	0.0	42.6
03/17/05	28	76,709	3.5	183	0.1	0.0	0.0	0.2
04/15/05	29	80,613	3.5	183	4.6	4.2	2.2	9.8
05/11/05	27	84,069	3.5	183	1.7	1.1	0.3	3.4
06/21/05	41	90,727	3.5	183	0.3	3.4	0.0	0.9
08/23/05	63	99,562	4.0	175	45.2	26.9	0.0	200
09/30/05	37	104,474	4.0	183	9.3	13.0	0.0	25.3
10/25/05	25	107,068	4.0	175	11.1	10.0	9.7	19.5
11/30/05	36	109,918	4.0	175	14.1	14.4	0.2	35.6
12/19/05	19	113,376	4.0	175	14.8	14.1	0.1	19.7
12/30/05	11	13,376	4.0	175	14.8	13.7	0.1	11.4
03/28/06	0	14,245	4.0	175	14.4	22.6	14.1	0.0
04/27/06	30	19,313	4.0	120	25.9	26.4	NM	37.4
02/23/07	0	21,831	NM	140	1.0	0.0	0.0	0.0
3/21/2007	27	28,495	4.0	279	1.0	0.1	0.7	3.0
Total To Date	878⁷							1,205⁸
Total for 2007	27							3.0

Notes:

KWH = kilowatt-hours

SCFM = standard cubic feet per minute

ppm = parts per million

NM = not measured

¹ Flowrate calculated based on air velocity measurements through a 4-inch pipe recorded in the field

² Influent petroleum hydrocarbon concentrations based on field measurements using a photoionization detector (PID) unless otherwise indicated

³ Concentrations between carbon units based on field measurements using a PID

⁴ Effluent concentrations based on field measurements using a PID

⁵ Hydrocarbons removed during each operating period estimated using influent concentration, average flowrate, and operational time period

⁶ Operation and maintenance of the remedial system was performed on 12/15/03 by the previous consultant. Delta assumed operation and maintenance of the system during January 2004.

⁷ Total operational time to date includes 107.1 days operated by previous consultant from system startup on 8/20/03 through 12/15/03.

⁸ Total estimated petroleum hydrocarbons removed to date includes 616.9 pounds reportedly removed by previous consultant from system startup on 8/20/03 through 12/15/03.

⁹ Petroleum hydrocarbon concentration from laboratory analysis.

¹⁰ At the request of ConocoPhillips, the remedial system was shut down upon departure of the site on 12/17/04 to be restarted at a later date.

¹¹ At the request of ConocoPhillips, the remedial system was restarted on 1/6/05.

TABLE 2
AIR SPARGE UNIT OPERATIONAL SUMMARY
 ConocoPhillips Site No. 255353
 600 Westlake Avenue North
 Seattle, Washington

Date	Header Pressure (psig)	Air Flowrates per Air Sparge Point (SCFM)														
		AS-1	AS-2	AS-3	AS-4	AS-5	AS-6	AS-7	AS-8	AS-9	AS-10	AS-11	AS-12	AS-13	AS-14	AS-15
01/29/04	5	11	12	12	10	11	12	13	8	8	3	<3	5	11	12	8
02/28/04	4	11	12	14	11	11	12	13	8	8	3	4	<3	10	11	9
03/30/04	5	11	12	14	11	12	12	14	8	8	<3	<3	<3	10	12	8
04/28/04	NM	10.5	11.5	14	10.5	11	11.5	13.5	8	7.5	<3	<3	<3	9	10.5	7
05/27/04	4.5	10	11	14	9	10	11	12	7	7	<3	<3	<3	5.5	9	7.5
06/22/04	4.5	11	11	14	10	11	11	12	12.5	11	<3	<3	<3	<3	10	8
07/22/04	4	12	13	16	11	12	12	13	8	5.5	<3	<3	<3	<3	10.5	8
08/16/04	4.5	10	11.5	16	9.5	11	12	10.5	8	5.5	<3	<3	<3	<3	9.5	10.5
09/21/04	4.5	10	10	11.5	8.5	9	9.5	11	6	4.5	<3	<3	4	<3	9.5	7
10/28/04	4.5	9.5	10	11.5	9.5	9	9.5	10.5	5.5	4	<3	<3	<3	<3	10	6
11/22/04	4.5	8.5	10	10.5	9	9	9.5	10.5	5	3.5	<3	<3	<3	<3	8	6
12/17/04 ¹	4.5	8.0	8.7	9.7	7.8	7.5	8.5	9.5	4	3.2	<3	<3	<3	<3	10	7
01/27/05 ²	4.5	8.0	8.7	9.5	7.6	7.5	8.2	9.4	3.8	3.2	<3	<3	<3	<3	10	5
02/17/05	4.5	8.0	8.8	9.7	7.7	7.5	8.3	9.2	3.6	3	<3	<3	<3	<3	9.7	5
03/17/05	4.5	6.0	9.5	11.5	8.5	8	9	8	3	3	<3	<3	<3	<3	10	<3
04/15/05	5	8.0	9	11	8	8	8.5	4	<3	<3	<3	<3	<3	<3	9	4.5
05/11/05	5	8.2	9	11.5	8	8	8.5	3	<3	<3	<3	<3	<3	<3	8.5	3
06/21/05	7	5.0	4.5	5	4.5	3	3.5	3.5 E	9	5 E	<3	<3	<3 E	<3	5.5	5 E
08/23/05	7	5.0	5	5.5	5	1	1	1	7	6	1	1	1	0	4	9
09/30/05	8	5.5	5.5	7	6	3	<3	<3E	5.5	6.5	<3	<3	<3	<3	4	<3
10/25/05	8.5	<3	5	6	5.5	<3	<3	<3	5.5	7.5	<3	<3	<3	<3	4	<3
11/30/05	2.2	14.0	8	4E	7.5	<3	3E	<3	5E	7.5E	-	<3	<3	<3	5.5	<3
12/30/05	4.2	13.5	10	<3	8	<3	<3	<3	7	7	<3	<3	<3	<3	5.5	<3
03/28/06	4	8.5	3.2	2	4.2	2.5	2.5	2	2.5	3.8	3.8	8.6	4.8	5.8	4	2.5
04/27/06	NIO	NIO	NIO	NIO	NIO	NIO	NIO	NIO	NIO	NIO	NIO	NIO	NIO	NIO	NIO	NIO
02/23/07	3	7	7	0	4.5	0	3.5	0	10	14.5	0	0	0	0	8	0
03/21/07	6	15	10	4	7	0	6	0	7	10	5.5	2.5	4.5	2	12	2
Average:	4.9	9.4	9.1	10.0	8.0	7.5	8.6	8.5	6.6	6.4	2.7	3.2	3.2	5.9	8.5	6.2

Notes:

psig = pounds per square inch, gauge
 SCFM = standard cubic feet per minute
 NIO = not in operation

¹ At the request of ConocoPhillips, the remedial system was shut down upon departure of the site on 12/17/04, to be restarted at a later date.

² At the request of ConocoPhillips, the remedial system was restarted on 1/6/05.

**TABLE 3
DEEP AIR SPARGE UNIT OPERATIONAL SUMMARY**

ConocoPhillips Site No 255353
600 Westlake Avenue North
Seattle, Washington

Date	Header Pressure (psig)	Air Flowrates per Air Sparge Point (SCFM)				
		DAS-1	DAS-2	DAS-3	DAS-4	DAS-5
01/29/04	NIO	NIO	NIO	NIO	NIO	NIO
02/28/04	12	NIO	3	5	3.5	<3
03/30/04	NIO	NIO	NIO	NIO	NIO	NIO
04/28/04	NIO	NIO	NIO	NIO	NIO	NIO
05/27/04	NIO	NIO	NIO	NIO	NIO	NIO
06/22/04	NIO	NIO	NIO	NIO	NIO	NIO
07/22/04	NIO	NIO	NIO	NIO	NIO	NIO
08/16/04	NIO	NIO	NIO	NIO	NIO	NIO
09/21/04	NIO	NIO	NIO	NIO	NIO	NIO
09/22/04 ¹	10.5*	NIO	5*	22*	4*	7*
10/28/04	10.5	NIO	5	22	4	7
11/22/04	10.5	NIO	6	5.5	4	7.5
12/17/04 ²	11	NIO	6.5	3.5	4	6.5
01/27/05 ³	11	NIO	6.5	4	<3	5
02/17/05	11.5	NIO	7.5	4 E	4 E	4 E
03/17/05	13.5	NIO	4	<3	<3	5
04/15/05	11.5	NIO	9	3 E	3 E	4 E
05/11/05	11.5	NIO	9.2	3	<3 E	5 E
06/21/05	14.5	NIO	4.5	3.5 E	3 E	6.5
08/23/05	NM	NIO	NM	NM	NM	NM
09/30/05	16.5	NIO	5.5	3.5	<3	<3
10/25/05	13.5	NIO	5	3.5	6	5
11/30/05	12.5	NIO	6	7	<3	13
12/30/05	NIO	NIO	NIO	NIO	NIO	NIO
03/28/06	NIO	NIO	NIO	NIO	NIO	NIO
04/27/06	11.5	NIO	7	5	5	14.75
02/23/07	12.5	NIO	7	3	3	17
03/21/07	13.5	NIO	7.5	3.5	5.5	7.5

Notes:

psig = pounds per square inch, gauge
 SCFM = standard cubic feet per minute
 NIO = not in operation
 E = Erratic readings
 * Estimated value

¹ The DAS system was modified and restarted on 9/22/04. DAS pressure and flowrates are estimated based on values recorded during fourth quarter monitoring in October 2004.

² At the request of ConocoPhillips, the remedial system was shut down upon departure of the site on 12/17/04, to be restarted at a later date.

³ At the request of ConocoPhillips, the remedial system was restarted on 1/6/05.

**LABORATORY ANALYTICAL REPORT AND
CHAIN-OF-CUSTODY DOCUMENTATION**

Remedial System Monitoring
ConocoPhillips Site No. 255353

March 07, 2007

Eric Larsen
Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052

RE: COP Westlake 255-35-3

Enclosed are the results of analyses for samples received by the laboratory on 02/28/07 12:40.
The following list is a summary of the Work Orders contained in this report, generated on 03/07/07
14:38.

If you have any questions concerning this report, please feel free to contact me

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BQB0534	COP Westlake 255-35-3	WA 255-35-27-2

TestAmerica - Seattle, WA

Sandra Yakamavich

Sandra Yakamavich, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain
of custody document. This analytical report shall not be reproduced except in full,
without the written approval of the laboratory.*



TestAmerica

ANALYTICAL TESTING CORPORATION

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 FAX 420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **2080534**

CLIENT: Conoco Phillips	INVOICE TO: Eric Larsen Delta Consulting 4006 148th Ave NE Redmond, WA 98052	TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses Petrochem Hydrocarbon Analyses																								
REPORT TO: Eric Larsen Delta Consulting 4006 148th Ave NE Redmond, WA 98052	P.O. NUMBER: WA 255-35	<table border="1"> <tr> <td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><1</td> </tr> </table>	19	20	21	22	23	24	25	26	27	28	29	30												<1
19	20	21	22	23	24	25	26	27	28	29	30															
											<1															
PHONE: 253-5357	FAX: 425-869-1892	OTHER: <input type="checkbox"/> Specify:																								
PROJECT NAME: 25357 - westlake	PRESERVATIVE	* Turnaround Requests less than standard may incur Rush Charges.																								
PROJECT NUMBER: WA 255-35	REQUESTED ANALYSES																									
SAMPLED BY: Graig Montgomery																										
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W.S.O)																								
1. Influent	2/28/07 0930	Air																								
2. Midfluent	2/28/07 0915	Air																								
3. Effluent	2/28/07 0940	Air																								
4.																										
5.																										
6.																										
7.																										
8.																										
9.																										
10.																										

RECEIVED BY: **Cathy Campbell**
 PRINT NAME: **Cathy Campbell**
 RECEIVED BY: **Cathy Campbell**
 PRINT NAME: **Cathy Campbell**
 FIRM: **TPA**
 DATE: **2/28/07**
 TIME: **12:40**
 DATE: **2/28/07**
 TIME: **12:40**

RECEIVED BY: **Graig Montgomery**
 PRINT NAME: **Graig Montgomery**
 RECEIVED BY: **Graig Montgomery**
 PRINT NAME: **Graig Montgomery**
 FIRM: **Delta**
 DATE: **2/28/07**
 TIME: **11:40**
 DATE: **2/28/07**
 TIME: **11:40**

ADDITIONAL REMARKS:
 TEMP: **17.6**
 PAGE OF **1/0**

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name:	COP Westlake 255-35-3	Report Created:
	Project Number:	WA 255-35-27-2	03/07/07 14:38
	Project Manager:	Eric Larsen	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	BQB0534-01	Air	02/28/07 09:30	02/28/07 12:40
Midfluent	BQB0534-02	Air	02/28/07 09:35	02/28/07 12:40
Effluent	BQB0534-03	Air	02/28/07 09:40	02/28/07 12:40

TestAmerica - Seattle WA

Sandra Yakamavich

Sandra Yakamavich Project Manager

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Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-27-2 Project Manager: Eric Larsen	Report Created: 03/07/07 14:38
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Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWIPH-G and EPA 8021B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQB0534-01 (Influent)		Air		Sampled: 02/28/07 09:30						
Gasoline Range Hydrocarbons	NWIPH Modified	110	----	10.0	mg/m ³ Air	1x	7C01016	03/01/07 13:00	03/01/07 15:46	
Gasoline Range Hydrocarbons (v/v)		25.9	---	2.36	ppmv					
Benzene (v/v)		0.197	----	0.0308						
Toluene (v/v)		0.193	----	0.0261						
Ethylbenzene (v/v)		0.129	----	0.0227						
Xylenes, total (v/v)		0.682	---	0.0454						
Benzene		0.641	---	0.100	mg/m ³ Air					
Toluene		0.740	----	0.100						
Ethylbenzene		0.569	----	0.100						
Xylenes (total)		3.01	----	0.200						
Surrogate(s)	4-BFB (FID)		98.3%		50 - 150 %					
	4-BFB (PID)		86.7%		75 - 133 %					
BQB0534-02 (Midfluent)		Air		Sampled: 02/28/07 09:35						
Gasoline Range Hydrocarbons	NWIPH Modified	ND	----	10.0	mg/m ³ Air	1x	7C01016	03/01/07 13:00	03/01/07 16:16	
Gasoline Range Hydrocarbons (v/v)		ND	----	2.36	ppmv					
Benzene (v/v)		ND	----	0.0308						
Toluene (v/v)		ND	----	0.0261						
Ethylbenzene (v/v)		ND	----	0.0227						
Xylenes, total (v/v)		ND	----	0.0454						
Benzene		ND	---	0.100	mg/m ³ Air					
Toluene		ND	----	0.100						
Ethylbenzene		ND	----	0.100						
Xylenes (total)		ND	----	0.200						
Surrogate(s)	4-BFB (FID)		88.3%		50 - 150 %					
	4-BFB (PID)		97.5%		75 - 133 %					
BQB0534-03 (Effluent)		Air		Sampled: 02/28/07 09:40						
Gasoline Range Hydrocarbons	NWIPH Modified	ND	----	10.0	mg/m ³ Air	1x	7C01016	03/01/07 13:00	03/01/07 16:45	
Gasoline Range Hydrocarbons (v/v)		ND	----	2.36	ppmv					
Benzene (v/v)		0.104	----	0.0308						
Toluene (v/v)		ND	----	0.0261						
Ethylbenzene (v/v)		ND	----	0.0227						
Xylenes, total (v/v)		ND	----	0.0454						
Benzene		0.339	----	0.100	mg/m ³ Air					
Toluene		ND	----	0.100						
Ethylbenzene		ND	----	0.100						
Xylenes (total)		ND	----	0.200						

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Sandra Yakamavich
 Sandra Yakamavich Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-27-2 Project Manager: Eric Larsen	Report Created: 03/07/07 14:38
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX in Air by NWTPH-G and EPA 8021B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQB0534-03	(Effluent)	Air			Sampled: 02/28/07 09:40					
<i>Surrogate(s)</i>	<i>4-BFB (FID)</i>		88.3%		50 - 150 %	<i>1x</i>			03/01/07 16:45	
	<i>4-BFB (PID)</i>		98.3%		75 - 133 %					

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Sandra Yakamavich

Sandra Yakamavich, Project Manager

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Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-27-2 Project Manager: Eric Larsen	Report Created: 03/07/07 14:38
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQB0534-01 (Influent)		Air			Sampled: 02/28/07 09:30					
Methyl tert-butyl ether	EPA 8260B	ND	---	2.00	ug/l Air	1x	7C02007	03/02/07 11:52	03/02/07 12:57	
Surrogate(s)	1,2-DCA-d4		117%		69 - 131 %					
	Toluene-d8		102%		72 - 131 %					
	4-BFB		101%		78 - 121 %					
BQB0534-02 (Midfluent)		Air			Sampled: 02/28/07 09:35					
Methyl tert-butyl ether	EPA 8260B	ND	---	2.00	ug/l Air	1x	7C02007	03/02/07 11:52	03/02/07 13:48	
Surrogate(s)	1,2-DCA-d4		114%		69 - 131 %					
	Toluene-d8		102%		72 - 131 %					
	4-BFB		99.4%		78 - 121 %					
BQB0534-03 (Effluent)		Air			Sampled: 02/28/07 09:40					
Methyl tert-butyl ether	EPA 8260B	ND	---	2.00	ug/l Air	1x	7C02007	03/02/07 11:52	03/02/07 14:20	
Surrogate(s)	1,2-DCA-d4		114%		69 - 131 %					
	Toluene-d8		99.5%		72 - 131 %					
	4-BFB		98.8%		78 - 121 %					

TestAmerica - Seattle WA

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Sandra Yakamavich Project Manager



Delta Environmental 4006 148th Ave NE Redmond WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-27-2 Project Manager: Eric Larsen	Report Created: 03/07/07 14:38
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Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7C01016 Air Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRI	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C01016-BLK1)													Extracted: 03/01/07 12:00	
Gasoline Range Hydrocarbons (v/v)	NWTPH Modified	ND	---	2.36	ppmv	1x	--	--	--	--	--	--	03/01/07 12:03	
Gasoline Range Hydrocarbons	"	ND	---	10.0	mg/m ³ Air	"	--	--	--	--	--	--		
Benzene (v/v)	"	ND	---	0.0308	ppmv	"	--	--	--	--	--	--		
Toluene (v/v)	"	ND	---	0.0261	"	"	--	--	--	--	--	--		
Ethylbenzene (v/v)	"	ND	---	0.0227	"	"	--	--	--	--	--	--		
Xylenes total (v/v)	"	ND	---	0.0454	"	"	--	--	--	--	--	--		
Benzene	"	ND	---	0.100	mg/m ³ Air	"	--	--	--	--	--	--		
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--		
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--		
Xylenes (total)	"	ND	---	0.200	"	"	--	--	--	--	--	--		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery</i>	<i>92.5%</i>	<i>Limits 50-150%</i>								<i>03/01/07 12:03</i>		
<i>4-BFB (PID)</i>			<i>96.7%</i>	<i>75-133%</i>										
LCS (7C01016-BS1)													Extracted: 03/01/07 12:00	
Gasoline Range Hydrocarbons	NWTPH Modified	75.0	---	10.0	mg/m ³ Air	1x	--	100	75.0%	(50-150)	--	--	03/01/07 12:46	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery</i>	<i>85.8%</i>	<i>Limits 50-150%</i>								<i>03/01/07 12:46</i>		
LCS (7C01016-BS2)													Extracted: 03/01/07 12:00	
Benzene	NWTPH Modified	1.45	---	0.100	mg/m ³ Air	1x	--	2.00	72.5%	(50-150)	--	--	03/01/07 13:46	
Toluene	"	1.41	---	0.100	"	"	--	"	70.5%	"	--	--		
Ethylbenzene	"	1.40	---	0.100	"	"	--	"	70.0%	"	--	--		
Xylenes (total)	"	4.43	---	0.200	"	"	--	6.00	73.8%	"	--	--		
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery</i>	<i>100%</i>	<i>Limits 75-133%</i>								<i>03/01/07 13:46</i>		
LCS Dup (7C01016-BSD1)													Extracted: 03/01/07 12:00	
Gasoline Range Hydrocarbons	NWTPH Modified	71.8	---	10.0	mg/m ³ Air	1x	--	100	71.8%	(50-150)	4.36%	(50)	03/01/07 13:16	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery</i>	<i>95.0%</i>	<i>Limits 50-150%</i>								<i>03/01/07 13:16</i>		
LCS Dup (7C01016-BSD2)													Extracted: 03/01/07 12:00	
Benzene	NWTPH Modified	1.79	---	0.100	mg/m ³ Air	1x	--	2.00	89.5%	(50-150)	21.0%	(50)	03/01/07 14:16	
Toluene	"	1.76	---	0.100	"	"	--	"	88.0%	"	22.1%	"		
Ethylbenzene	"	1.77	---	0.100	"	"	--	"	88.5%	"	23.3%	"		
Xylenes (total)	"	5.35	---	0.200	"	"	--	6.00	89.2%	"	18.8%	"		
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery</i>	<i>99.2%</i>	<i>Limits 75-133%</i>								<i>03/01/07 14:16</i>		

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Sandra Yakamovich Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-27-2 Project Manager: Eric Larsen	Report Created: 03/07/07 14:38
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Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7C01016 Air Preparation Method: EPA 5030B (P/I)

Analyte	Method	Result	MDL *	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (7C01016-DUP1)			QC Source: BQB0530-01				Extracted: 03/01/07 13:00							
Gasoline Range Hydrocarbons	NWTPH Modified	ND	---	10.0	mg/m ³ Air	1x	ND	--	--	---	3.80%	(30)	03/01/07 15:16	
Gasoline Range Hydrocarbons (v/v)	"	ND	---	2.36	ppmv	"	ND	--	--	---	3.55%	"	"	
Benzene (v/v)	"	ND	---	0.0308	"	"	ND	--	--	---	NR	"	"	
Toluene (v/v)	"	ND	---	0.0261	"	"	ND	--	--	---	NR	"	"	
Ethylbenzene (v/v)	"	ND	---	0.0227	"	"	ND	--	--	---	NR	"	"	
Xylenes total (v/v)	"	ND	---	0.0454	"	"	ND	--	--	---	NR	"	"	
Benzene	"	ND	---	0.100	mg/m ³ Air	"	ND	--	--	---	61.4%	"	"	R4
Toluene	"	ND	---	0.100	"	"	ND	--	--	---	NR	"	"	
Ethylbenzene	"	ND	---	0.100	"	"	ND	--	--	---	NR	"	"	
Xylenes (total)	"	ND	---	0.200	"	"	ND	--	--	---	NR	"	"	
Surrogate(s):	4-BFB (FID)	Recovery	90.0%	Limits	50-150%								03/01/07 15:16	
	4-BFB (PID)		99.2%		75-133%									

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Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-27-2 Project Manager: Eric Larsen	Report Created: 03/07/07 14:38
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle WA

QC Batch: **7C02007** Air Preparation Method: **EPA 5030B**

Analyte	Method	Result	MDL *	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C02007-BLK1)													Extracted: 03/02/07 08:52	
Acetone	EPA 8260B	ND	---	20.0	ug/l Air	1x	--	--	--	--	--	--	03/02/07 12:19	
Benzene		ND	---	2.00	"	"	--	--	--	--	--	--		
Bromobenzene		ND	---	2.00	"	"	--	--	--	--	--	--		
Bromochloromethane		ND	---	2.00	"	"	--	--	--	--	--	--		
Bromodichloromethane		ND	---	2.00	"	"	--	--	--	--	--	--		
Bromoform		ND	---	2.00	"	"	--	--	--	--	--	--		
Bromomethane		ND	---	2.00	"	"	--	--	--	--	--	--		
2-Butanone		ND	---	20.0	"	"	--	--	--	--	--	--		
n-Butylbenzene		ND	---	2.00	"	"	--	--	--	--	--	--		
sec-Butylbenzene		ND	---	2.00	"	"	--	--	--	--	--	--		
tert-Butylbenzene		ND	---	2.00	"	"	--	--	--	--	--	--		
Carbon disulfide		ND	---	2.00	"	"	--	--	--	--	--	--		
Carbon tetrachloride		ND	---	2.00	"	"	--	--	--	--	--	--		
Chlorobenzene		ND	---	2.00	"	"	--	--	--	--	--	--		
Chloroethane		ND	---	2.00	"	"	--	--	--	--	--	--		
1-Chlorohexane		ND	---	2.00	"	"	--	--	--	--	--	--		
Chloroform		ND	---	2.00	"	"	--	--	--	--	--	--		
Chloromethane		ND	---	5.00	"	"	--	--	--	--	--	--		
2-Chlorotoluene		ND	---	2.00	"	"	--	--	--	--	--	--		
4-Chlorotoluene		ND	---	2.00	"	"	--	--	--	--	--	--		
Dibromochloromethane		ND	---	2.00	"	"	--	--	--	--	--	--		
1,2-Dibromo-3-chloropropane		ND	---	10.0	"	"	--	--	--	--	--	--		
1,2-Dibromoethane		ND	---	2.00	"	"	--	--	--	--	--	--		
Dibromomethane		ND	---	2.00	"	"	--	--	--	--	--	--		
1,2-Dichlorobenzene		ND	---	2.00	"	"	--	--	--	--	--	--		
1,3-Dichlorobenzene		ND	---	2.00	"	"	--	--	--	--	--	--		
1,4-Dichlorobenzene		ND	---	2.00	"	"	--	--	--	--	--	--		
Dichlorodifluoromethane		ND	---	2.00	"	"	--	--	--	--	--	--		
1,1-Dichloroethane		ND	---	2.00	"	"	--	--	--	--	--	--		
1,2-Dichloroethane		ND	---	2.00	"	"	--	--	--	--	--	--		
1,1-Dichloroethene		ND	---	2.00	"	"	--	--	--	--	--	--		
cis-1,2-Dichloroethene		ND	---	2.00	"	"	--	--	--	--	--	--		
trans-1,2-Dichloroethene		ND	---	2.00	"	"	--	--	--	--	--	--		
1,2-Dichloropropane		ND	---	2.00	"	"	--	--	--	--	--	--		
1,3-Dichloropropane		ND	---	2.00	"	"	--	--	--	--	--	--		
2,2-Dichloropropane		ND	---	2.00	"	"	--	--	--	--	--	--		
1,1-Dichloropropene		ND	---	2.00	"	"	--	--	--	--	--	--		
cis-1,3-Dichloropropene		ND	---	2.00	"	"	--	--	--	--	--	--		
trans-1,3-Dichloropropene		ND	---	2.00	"	"	--	--	--	--	--	--		

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Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-27-2 Project Manager: Eric Larsen	Report Created: 03/07/07 14:38
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7C02007 Air Preparation Method: EPA 5030B

Analyte	Method	Result	MDI *	MRI	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C02007-BLK1)										Extracted: 03/02/07 08:52				
Ethylbenzene	EPA 8260B	ND	---	2.00	ug/l Air	1x	--	--	--	--	--	--	03/02/07 12:19	
Hexachlorobutadiene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
Methyl tert-butyl ether	"	ND	---	2.00	"	"	--	--	--	--	--	--		
2-Hexanone	"	ND	---	20.0	"	"	--	--	--	--	--	--		
Isopropylbenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
p-Isopropyltoluene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
4-Methyl-2-pentanone	"	ND	---	20.0	"	"	--	--	--	--	--	--		
Methylene chloride	"	ND	---	10.0	"	"	--	--	--	--	--	--		
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
n-Propylbenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
Styrene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,2,3-Trichlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,2,4-Trichlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,1,1,2-Tetrachloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,1,2,2-Tetrachloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--		
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
Toluene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,1,1-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--		
Trichloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
Trichlorofluoromethane	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,2,3-Trichloropropane	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,2,4-Trimethylbenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,3,5-Trimethylbenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
Vinyl chloride	"	ND	---	2.00	"	"	--	--	--	--	--	--		
o-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
m-p-Xylene	"	ND	---	4.00	"	"	--	--	--	--	--	--		

Surrogate(s)	1,2-DCA-d4	Recovery	114%	Limits	69-131%	03/02/07 12:19
	Toluene-d8		101%		72-131%	
	4-BFB		96.0%		78-121%	

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 Sandra Yakamavich, Project Manager

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7C02007 Air Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRI	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7C02007-BS1)													Extracted: 03/02/07 08:52	
Benzene	EPA 8260B	9.36	---	2.00	ug/l Air	1x	--	10.0	93.6%	(50-150)	--	--	03/02/07 10:21	
Chlorobenzene		9.64	---	2.00			--		96.4%		--	--	"	
1,1-Dichloroethene		9.40	---	2.00			--		94.0%		--	--	"	
Ethylbenzene		9.73	---	2.00			--		97.3%		--	--	"	
Toluene		9.15	---	2.00			--		91.5%		--	--	"	
Trichloroethene		9.66	---	2.00			--		96.6%		--	--	"	
o-Xylene		9.62	---	1.00			--		96.2%		--	--	"	
m,p-Xylene		19.0	---	4.00			--	20.0	95.0%		--	--	"	
Surrogate(s)	1,2-DCA-d4	Recovery	99.2%	Limits	69-131%								03/02/07 10:21	
	Toluene-d8		99.4%		72-131%									
	4-BFB		100%		78-121%									

LCS (7C02007-BS2)													Extracted: 03/02/07 08:52	
Benzene	EPA 8260B	19.3	---	2.00	ug/l Air	1x	--	20.0	96.5%	(50-150)	--	--	03/02/07 10:54	
Chlorobenzene		18.8	---	2.00			--		94.0%		--	--	"	
1,1-Dichloroethene		19.6	---	2.00			--		98.0%		--	--	"	
Ethylbenzene		18.7	---	2.00			--		93.5%		--	--	"	
Toluene		18.3	---	2.00			--		91.5%		--	--	"	
Trichloroethene		19.8	---	2.00			--		99.0%		--	--	"	
o-Xylene		18.9	---	2.00			--		94.5%		--	--	"	
m,p-Xylene		38.3	---	4.00			--	40.0	95.8%		--	--	"	
Surrogate(s)	1,2-DCA-d4	Recovery	98.3%	Limits	69-131%								03/02/07 10:54	
	Toluene-d8		96.5%		72-131%									
	4-BFB		101%		78-121%									

TestAmerica - Seattle WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Sandra Yakamavich

Sandra Yakamavich Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-27-2 Project Manager: Eric Larsen	Report Created: 03/07/07 14:38
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Notes and Definitions

Report Specific Notes:

- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information

Laboratory Reporting Conventions:

- DEI - Analyte DETECTED at or above the Reporting Limit Qualitative Analyses only
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate)
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis Results and Reporting Limits have been corrected for Percent Dry Weight
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received) Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries)
- MRL - METHOD REPORTING LIMIT Reporting Level at, or above, the lowest level standard of the Calibration Table
- MDL* - METHOD DETECTION LIMIT Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B
*MDLs are listed on the report only if the data has been evaluated below the MRL Results between the MDL and MRL are reported as Estimated Results
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*
Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory
Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature

Sandra Yakamavich



March 27, 2007

Eric Larsen
Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052

RE: COP Westlake 255-35-3

Enclosed are the results of analyses for samples received by the laboratory on 03/21/07 16:45
The following list is a summary of the Work Orders contained in this report, generated on 03/27/07
14:14.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BQC0469	COP Westlake 255-35-3	WA 255-35-20

TestAmerica - Seattle, WA

Sandra Yakamavich

Sandra Yakamavich Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain
of custody document. This analytical report shall not be reproduced except in full,
without the written approval of the laboratory.*



CHAIN OF CUSTODY REPORT

Work Order #: **2004049**

CLIENT: Delta		INVOICE TO: Eric Laise		TURNAROUND REQUEST	
REPORT TO: Eric Laise		ADDRESS: Delta Consulting		in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses 10 7 5 4 3 2 1 <1 375 375 375 375 375 375 375 OTHER Specify:	
PHONE: 255353- Westlake		P.O. NUMBER: WA 255-3520		* Turnaround Request less than standard may incur Rush Charges.	
PROJECT NAME: WA 255-3520		PRESERVATIVE		MATRIX (W, S, O) # OF CONT. LOCATION / COMMENTS TA WO ID	
PROJECT NUMBER: WA 255-3520		REQUESTED ANALYSES		A 1 07 A 1 02 A 1 03	
SAMPLED BY: G. Montgomery / Jaime KC		SAMPLING DATE/TIME			
1. Inf	3/21/07 9:00	✓	✓		
2. Mid	3/21/07 9:05	✓	✓		
3. Eff	3/21/07 9:10	✓	✓		
4.					
5.					
6.					
7.					
8.					
9.					
10					
RELEASED BY: GAH		DATE: 3/21/07		DATE: 3/21/07	
PRINT NAME: Jaime Peterson		FIRM: Delta		FIRM: TH-S	
RELEASED BY:		DATE:		DATE:	
PRINT NAME:		FIRM:		FIRM:	
ADDITIONAL REMARKS:		TEMP: 70.0		PAGE OF	
		REMARKS: @Lab 1645 w/o			

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-20 Project Manager: Eric Larsen	Report Created: 03/27/07 14:14
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INF	BQC0469-01	Air	03/21/07 09:00	03/21/07 16:45
MID	BQC0469-02	Air	03/21/07 09:05	03/21/07 16:45
EFF	BQC0469-03	Air	03/21/07 09:10	03/21/07 16:45

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Sandra Yakamavich

Sandra Yakamavich Project Manager

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Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-20 Project Manager: Eric Larsen	Report Created: 03/27/07 14:14
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Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWIPH-G and EPA 8021B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0469-01 (INF)		Air			Sampled: 03/21/07 09:00					
Gasoline Range Hydrocarbons	NWIPH Modified	19.5	----	10.0	mg/m ³ Air	1x	7C21021	03/21/07 10:42	03/21/07 18:42	
Gasoline Range Hydrocarbons (v/v)		4.61	----	2.36	ppmv					
Benzene (v/v)		0.0337	----	0.0308						
Toluene (v/v)		0.0272	----	0.0261						
Ethylbenzene (v/v)		ND	----	0.0227						
Xylenes, total (v/v)		ND	----	0.0454						
Benzene		0.109	----	0.100	mg/m ³ Air					
Toluene		0.104	----	0.100						
Ethylbenzene		ND	----	0.100						
Xylenes (total)		ND	----	0.200						
Surrogate(s)	4-BFB (TID)		87.5%		50 - 150 %					
	4-BFB (PID)		95.8%		75 - 133 %					

BQC0469-02 (MID)		Air			Sampled: 03/21/07 09:05					
Gasoline Range Hydrocarbons	NWIPH Modified	ND	----	10.0	mg/m ³ Air	1x	7C21021	03/21/07 10:42	03/21/07 19:12	
Gasoline Range Hydrocarbons (v/v)		ND	----	2.36	ppmv					
Benzene (v/v)		ND	----	0.0308						
Toluene (v/v)		ND	----	0.0261						
Ethylbenzene (v/v)		ND	----	0.0227						
Xylenes total (v/v)		ND	----	0.0454						
Benzene		ND	----	0.100	mg/m ³ Air					
Toluene		ND	----	0.100						
Ethylbenzene		ND	----	0.100						
Xylenes (total)		ND	----	0.200						
Surrogate(s)	4-BFB (TID)		85.0%		50 - 150 %					
	4-BFB (PID)		98.3%		75 - 133 %					

BQC0469-03 (EFF)		Air			Sampled: 03/21/07 09:10					
Gasoline Range Hydrocarbons	NWIPH Modified	ND	----	10.0	mg/m ³ Air	1x	7C21021	03/21/07 10:42	03/21/07 19:42	
Gasoline Range Hydrocarbons (v/v)		ND	----	2.36	ppmv					
Benzene (v/v)		0.0783	----	0.0308						
Toluene (v/v)		ND	----	0.0261						
Ethylbenzene (v/v)		ND	----	0.0227						
Xylenes total (v/v)		ND	----	0.0454						
Benzene		0.254	----	0.100	mg/m ³ Air					
Toluene		ND	----	0.100						
Ethylbenzene		ND	----	0.100						
Xylenes (total)		ND	----	0.200						

TestAmerica - Seattle WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Sandra Yakamavich
 Sandra Yakamavich Project Manager



Delta Environmental	Project Name: COP Westlake 255-35-3	Report Created:
4006 148th Ave NE	Project Number: WA 255-35-20	03/27/07 14:14
Redmond WA/USA 98052	Project Manager: Eric Larsen	

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWIPH-G and EPA 8021B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQC0469-03 (EFF)		Air						Sampled: 03/21/07 09:10		
<i>Surrogate(s)</i>	<i>4-BFB (FID)</i>		83.3%		50 - 150 %	1x			03/21/07 19:42	
	<i>4-BFB (PID)</i>		98.3%		75 - 133 %					

TestAmerica - Seattle WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Sandra Yakamovich

Sandra Yakamovich Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-20 Project Manager: Eric Larsen	Report Created: 03/27/07 14:14
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Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7C21021 Air Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDI *	MRI	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7C21021-BLK1)													Extracted: 03/21/07 10:42	
Gasoline Range Hydrocarbons	NWTPH Modified	ND	---	10.0	mg/m ³ Air	1x	---	---	---	---	---	---	03/21/07 12:13	
Gasoline Range Hydrocarbons (v/v)	"	ND	---	2.36	ppmv	"	---	---	---	---	---	---		
Benzene (v/v)	"	ND	---	0.0308	"	"	---	---	---	---	---	---		
Toluene (v/v)	"	ND	---	0.0261	"	"	---	---	---	---	---	---		
Ethylbenzene (v/v)	"	ND	---	0.0227	"	"	---	---	---	---	---	---		
Xylenes, total (v/v)	"	ND	---	0.0454	"	"	---	---	---	---	---	---		
Benzene	"	ND	---	0.100	mg/m ³ Air	"	---	---	---	---	---	---		
Toluene	"	ND	---	0.100	"	"	---	---	---	---	---	---		
Ethylbenzene	"	ND	---	0.100	"	"	---	---	---	---	---	---		
Xylenes (total)	"	ND	---	0.200	"	"	---	---	---	---	---	---		
Surrogate(s)	4-BFB (FID)	Recovery	88.3%	Limits	50-150%	"							03/21/07 12:13	
	4-BFB (PID)		95.8%		75-133%									
LCS (7C21021-BS1)													Extracted: 03/21/07 10:42	
Gasoline Range Hydrocarbons	NWTPH Modified	64.2	---	10.0	mg/m ³ Air	1x	---	100	64.2%	(50-150)	---	---	03/21/07 12:43	
Surrogate(s)	4-BFB (FID)	Recovery	90.8%	Limits	50-150%	"							03/21/07 12:43	
LCS (7C21021-BS2)													Extracted: 03/21/07 10:42	
Benzene	NWTPH Modified	1.45	---	0.100	mg/m ³ Air	1x	---	2.00	72.5%	(50-150)	---	---	03/21/07 13:43	
Toluene	"	1.53	---	0.100	"	"	---	"	76.5%		---	---		
Ethylbenzene	"	1.40	---	0.100	"	"	---	"	70.0%		---	---		
Xylenes (total)	"	4.33	---	0.200	"	"	---	6.00	72.2%		---	---		
Surrogate(s)	4-BFB (PID)	Recovery	100%	Limits	75-133%	"							03/21/07 13:43	
LCS Dup (7C21021-BSD1)													Extracted: 03/21/07 10:42	
Gasoline Range Hydrocarbons	NWTPH Modified	58.6	---	10.0	mg/m ³ Air	1x	---	100	58.6%	(50-150)	9.12%	(50)	03/21/07 13:13	
Surrogate(s)	4-BFB (FID)	Recovery	89.2%	Limits	50-150%	"							03/21/07 13:13	
LCS Dup (7C21021-BSD2)													Extracted: 03/21/07 10:42	
Benzene	NWTPH Modified	1.61	---	0.100	mg/m ³ Air	1x	---	2.00	80.5%	(50-150)	10.5%	(50)	03/21/07 14:13	
Toluene	"	1.56	---	0.100	"	"	---	"	78.0%		1.94%			
Ethylbenzene	"	1.54	---	0.100	"	"	---	"	77.0%		9.52%			
Xylenes (total)	"	4.67	---	0.200	"	"	---	6.00	77.8%		7.56%			
Surrogate(s)	4-BFB (PID)	Recovery	100%	Limits	75-133%	"							03/21/07 14:13	

TestAmerica - Seattle, WA

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Sandra Yakamovich

Sandra Yakamovich Project Manager



Delta Environmental 4006 148th Ave NE Redmond, WA/USA 98052	Project Name: COP Westlake 255-35-3 Project Number: WA 255-35-20 Project Manager: Eric Larsen	Report Created: 03/27/07 14:14
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Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7C21021 Air Preparation Method: EPA 5030B (P/I)

Analyte	Method	Result	MDL *	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (7C21021-DUP1)		QC Source: BQC0439-01			Extracted: 03/21/07 10:42									
Gasoline Range Hydrocarbons	NWTPH Modified	2120	---	50.0	mg/m ³ Air	5x	2120	---	---	---	0.00% (30)		03/21/07 16:43	
Gasoline Range Hydrocarbons (v/v)		499	---	11.8	ppmv		500	---	---	---	0.200%			
Benzene (v/v)		2.48	---	0.154			2.32	---	---	---	6.67%			
Toluene (v/v)		1.50	---	0.130			1.44	---	---	---	4.08%			
Ethylbenzene (v/v)		1.92	---	0.114			1.85	---	---	---	3.71%			
Xylenes, total (v/v)		3.55	---	0.227			3.39	---	---	---	4.61%			
Benzene		8.04	---	0.500	mg/m ³ Air		7.53	---	---	---	6.55%			
Toluene		5.74	---	0.500			5.53	---	---	---	3.73%			
Ethylbenzene		8.45	---	0.500			8.17	---	---	---	3.37%			
Xylenes (total)		15.6	---	1.00			15.0	---	---	---	3.92%			
Surrogate(s): +BFB (FID)		Recovery	105%	Limits		50-150%	1x							03/21/07 16:43
+BFB (PID)			70.1%			75-133%								

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Sandra Yakamavich

Sandra Yakamavich Project Manager



Delta Environmental	Project Name: COP Westlake 255-35-3	Report Created:
4006 148th Ave NE	Project Number: WA 255-35-20	03/27/07 14:14
Redmond, WA/USA 98052	Project Manager: Eric Larsen	

Notes and Definitions

Report Specific Notes:

Z - Due to sample matrix effects, the surrogate recovery was below the acceptance limits

Laboratory Reporting Conventions:

- DEI - Analyte DETECTED at or above the Reporting Limit Qualitative Analyses only
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate)
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis Results and Reporting Limits have been corrected for Percent Dry Weight
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received) Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results not Percent Recoveries)
- MRL - METHOD REPORTING LIMIT Reporting Level at, or above the lowest level standard of the Calibration Table
- MDL* - METHOD DETECTION LIMIT Reporting Level at, or above the statistically derived limit based on 40CFR Part 136 Appendix B *MDLs are listed on the report only if the data has been evaluated below the MRL Results between the MDL and MRL are reported as Estimated Results
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature

Sandra Yakamavich

Sandra Yakamavich Project Manager

