hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

Via FedEx

January 15, 2013

JAN 2013

NC DENR Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Ms. Lisa Taber
Brownfields Project Manager

Re: January 2013 Monitoring Report
Former Alpha Mill Facility
311 East 12th Street
Charlotte, Mecklenburg County, NC
H&H Job No. CRO-016

Dear Lisa:

On behalf of NR Alpha Mill Property Owner, LLC, H&H is submitting a copy of the January 2013 Monitoring Report for the above-referenced site.

Please let me know if you have any questions or require additional information.

Sincerely,

Hart & Hickman, PC

Chad R. Grubbs, PG
Project Manager

Attachments

cc: Mr. Bruce Nicholson – NCDENR (1 copy)
Mr. Tonya Sciranko – Northwood Ravin (1 copy)

Annual Monitoring Report

Former Alpha Mill Facility
Charlotte, North Carolina

H&H Job No. CRO-016
January 15, 2013

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

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Charlotte, NC 28203
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Raleigh, NC 27607
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hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

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January 15, 2013

NC DENR
Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Ms. Lisa Taber
Brownfields Project Manager

Re: Annual Monitoring Report
Former Alpha Mill Facility
311 East 12th Street
Charlotte, Mecklenburg County, NC
H&H Job No. CRO-016

Dear Lisa:

Hart & Hickman, PC (H&H) is submitting results of the recently completed groundwater and surface water monitoring event at the Alpha Mill site in Charlotte, North Carolina (Figure 1). This report summarizes results from the seventh annual groundwater monitoring event since completion of the site Brownfields Agreement (BFA).

1.0 Groundwater Sampling

Groundwater samples were collected from three monitoring wells at the downgradient boundary of the site (see Figure 2). The wells were installed in December 2006 as replacement wells for shallow monitoring wells MW-1S and MW2S, and intermediate well MW-7I, originally installed by Brown & Caldwell as part of the 2000 Remedial Investigation (RI) conducted on behalf of Consolidated Engraving Inc. As noted on Figure 2, the replacement wells were installed approximately 20 ft to 30 ft upgradient of the original wells to avoid new site structures and buried utilities. Table 1 includes

construction specifications and water level data.

Groundwater sampling was conducted at the site on November 28, 2012. Prior to sampling, the monitor wells were purged of a minimum of three well bore volumes of standing water. During purging, field measurements of pH, temperature, and specific conductivity were collected with field meters. The monitor wells were purged until the field parameters stabilized, up to a maximum of five well bore volumes. Well purging was conducted utilizing disposable teflon bailers. Following purging, the monitor wells were sampled with disposable teflon bailers. HazMat of Charlotte, NC placed purge water in a 55-gallon drum for offsite disposal. Refer to Appendix B for a copy of the waste disposal manifest.

Collected groundwater samples were placed on ice in a cooler and transported to con-test Analytical Laboratory located in East Longmeadow, MA under chain-of-custody protocol. The groundwater samples were submitted for analyses of volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260B, as well as total chromium, total copper, and hexavalent chromium by EPA Methods 6010B and 7196A.

As indicated in Table 2, the December 2012 data are generally similar when compared to previous monitoring results. Consistent with historical data, tetrachloroethene (PCE) and trichloroethene (TCE) were detected above the North Carolina 2L Groundwater Standards (2L standards) in all wells sampled. Total chromium was detected above 2L standards in MW-1SR and MW-2SR, but was not detected in MW-7IR. In addition, 1,2-dichlorobenzene and 1,4-dichlorobenzene, and chlorobenzene remained above 2L standards in monitoring well MW-1SR. In monitoring well MW-7IR, 1,2-dichlorobenzene and 1,4-dichlorobenzene were detected above the 2L standards. A copy of the analytical results has been included in Appendix A.

2.0 Surface Water Sampling

Surface water was sampled beyond the property boundary at the location specified in the BFA (approximately 500 ft northeast of the site). The surface water grab sample (SUR-4) was handled with the same protocols discussed in Section 1.0 and submitted to con-test Analytical Laboratory for analyses of VOCs by EPA Method 8260B and the metals total chromium, total copper, and hexavalent chromium by EPA Methods 6010B and 7196A. Laboratory analytical data for the surface water sample is included in Appendix A and summarized in Table 3.

Analytical results indicate that PCE was detected in the surface water sample at concentrations above the North Carolina 15A NCAC 2B Surface water and Wetland Standards for Human Health. TCE was not detected above laboratory reporting limits. Total chromium, total copper, and hexavalent chromium were not detected in the surface water sample at concentrations above laboratory reporting limits.

3.0 Conclusion

Overall, the analytical data was consistent with historical analytical data for the site. The next annual monitoring event is scheduled for December 2013. Please advise us if you have any questions or require additional information.

Sincerely,

Hart & Hickman, PC

Chad R. Grubbs, PG
Project Manager
Attachments

cc: Mr. Bruce Nicholson – NCDENR (1 copy)
Mr. Tonya Sciranko – Crosland (1 copy)
Mr. Ron Burt – Patterson Planning and Services (Consolidated Engravers) (1 copy)

TABLES

Table 1
Well Specifications and Water Level Data
Former Alpha Mill
Charlotte, North Carolina
H&H Project No. CRO-016

Monitoring Well	Total Depth (ft)	Screen Interval (ft)	December 4, 2007	December 9, 2008	December 3, 2009	November 30, 2010	December 27, 2011	November 28, 2012
			Depth to Water (ft)	Depth to Water (ft)	Depth to Water (ft)	Depth to Water (ft)	Depth to Water (ft)	Depth to Water (ft)
MW-1(S)R	19	5-15	8.47	7.59	6.38	7.98	6.65	8.02
MW-2(S)R	15.0	5-15	6.2	5.71	5.23	6.14	6.73	6.16
MW-7(i)R	19	9-19	8.21	7.48	6.39	7.8	5.38	7.88

Notes:
Wells were 2-inch PVC completed flush with ground surface
Wells installed by H&H on December 4, 2006

Table 2
Groundwater Analytical Results
for Replacement Monitoring Wells
Former Alpha Mill
Charlotte, North Carolina
H&H Job No. CRO-016

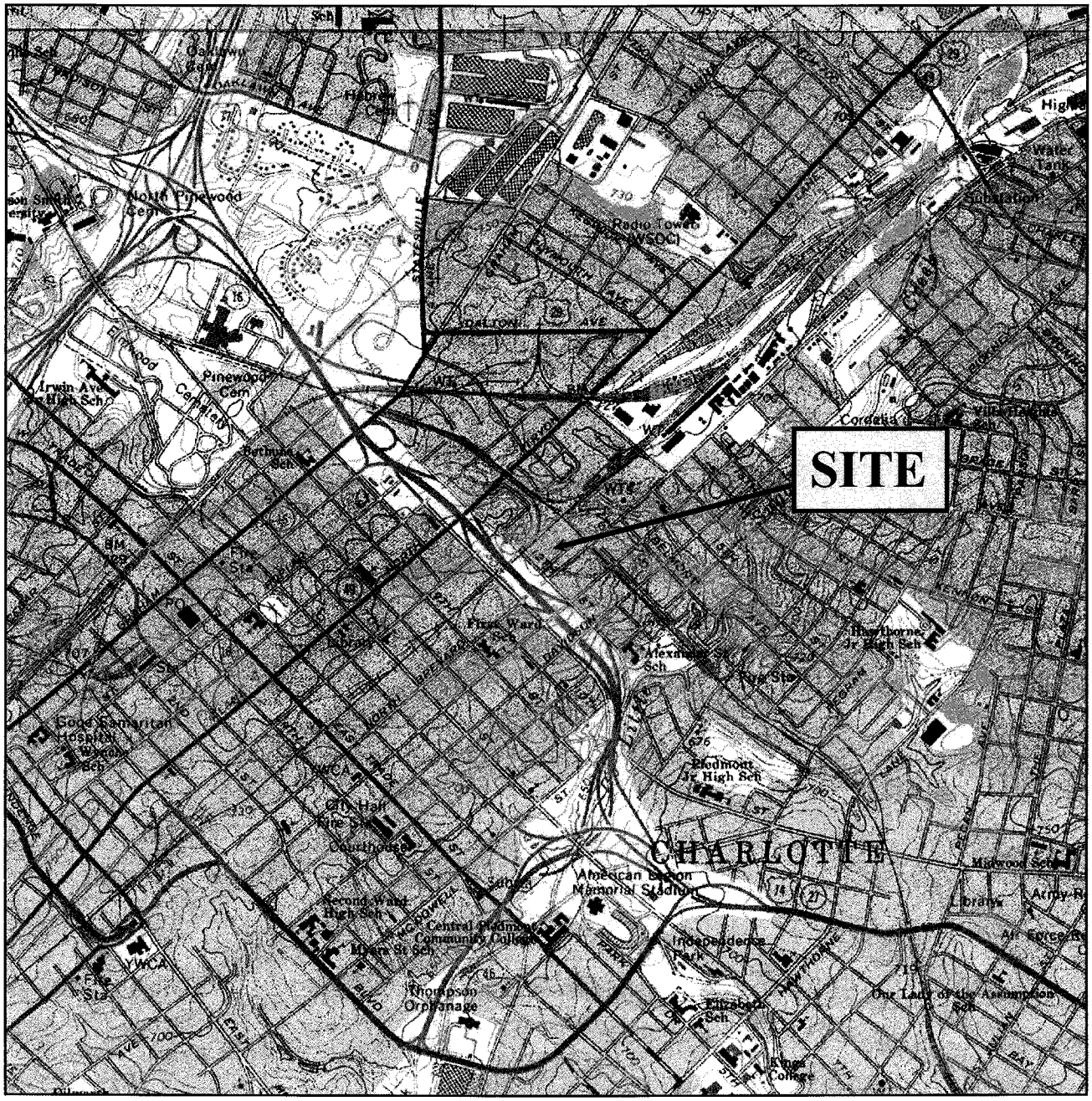
Monitoring Well ID	Sampling Date	1,1-Dichloroethene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Benzene	cis-1,2-Dichloroethene	Chlorobenzene	Chloroform	Isopropylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichlorethene	Total Chromium	Chromium VI	Total Copper
MW-1S / 1SR	10/4/2001	4.7	**59**	<2	5.4	BDL	BDL	BDL	BDL	11	<0.40	BDL	BDL	BDL	BDL	**380**	BDL	**200**	**160**	<0.025	360
	12/4/2006	<1	**1,300**	44	**150**	BDL	<10	<10	<10	**630**	<10	<10	<10	<10	<10	**110**	<20	<20	**29**	20	6.5
	12/4/2007	2.6	**3,300**	95	**350**	BDL	7.7	**6.2**	18	**1,400**	2.7	<1.0	<1.0	<1.0	<1.0	**260**	12	**140**	**200**	300	170
	12/9/2008	14	**3,000**	110	**380**	<2.0	15	**17**	46	**1,400**	3.3	1.7	2.7	1.6	1.3	**330**	46	**220**	**470**	190	490
	12/3/2009	<40	**2,200**	86	**240**	<80	<40	<40	<40	**890**	<40	<40	<40	<40	<40	**370**	<80	**220**	**290**	<25	250
	11/30/2010	6.2	**3,090**	94.8	**347**	1.0	8.7	**11.8**	24.8	**1,480**	2.2	<1.0	<1.0	<1.0	<1.0	**367**	18.9	**184**	**376**	63	332
	12/27/2011	<25.0	**2,310**	96.2	**279**	<25.0	<25.0	<25.0	<25.0	**1,410**	<25.0	<25.0	<25.0	<25.0	<25.0	**257**	<25.0	**151**	**375**	<50	271
	11/28/2012	<25.0	**3,300**	140	**410**	<120	50	<25.0	<25.0	**2,200**	<50.0	<25.0	<25.0	<25.0	<25.0	**370**	<25.0	**180**	**23**	33	<10
MW-2S / 2SR	10/4/2001	2.7	<2	<2	<2	BDL	BDL	BDL	BDL	<0.20	<0.40	BDL	BDL	BDL	BDL	**250**	BDL	**100**	**74**	43	34
	12/4/2006	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<1.0	4.8	<10	<10	<10	<10	**83**	<2.0	**33**	**12**	10	2.5
	12/4/2007	<1.0	3	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	**65**	<2.0	**34**	**75**	260	240
	12/9/2008	1.3	1.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	3.9	<1.0	<1.0	<1.0	<1.0	**68**	<2.0	**44**	**98**	130	440
	12/3/2009	1.4	1.2	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	<1.0	**83**	<2.0	**47**	**49**	<25	150
	11/30/2010	2.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	<1.0	<1.0	<1.0	**104**	<1.0	**58.1**	**73.9**	<50	294
	12/27/2011	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.5	<1.0	<1.0	<1.0	<1.0	**124**	<1.0	**73.1**	**40.5**	<50	133
	11/28/2012	3.8	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	6.8	<2.0	<2.0	<2.0	<2.0	**190**	<2.0	**120**	**14**	16	<10
MW-7I / 7IR	10/4/2001	<1	**250**	6.4	**23**	BDL	BDL	BDL	BDL	2.2	0.99	BDL	BDL	BDL	BDL	**380**	BDL	**180**	**96**	72	<5.0
	12/4/2006	<10	**980**	15	**70**	BDL	<10	<10	<10	<10	<10	<10	<10	<10	<10	**170**	<20	<20	5.2	20	14
	12/4/2007	1.7	**810**	17	**67**	BDL	3.7	<1.0	1.3	24	4	<1.0	<1.0	<1.0	<1.0	**180**	<2.0	**70**	**780**	230	**2,100**
	12/9/2008	4.6	**1,100**	18	**71**	<2.0	1.8	<1.0	1.6	6.8	6.3	<1.0	<1.0	<1.0	<1.0	**400**	<2.0	**230**	**320**	250	**1,100**
	12/3/2009	<4.0	**570**	14	**52**	<8.0	<4.0	<4.0	<4.0	13	4.9	<4.0	<4.0	<4.0	<4.0	**220**	<8.0	**120**	**360**	27	**1,000**
	11/30/2010	3.3	**625**	12.7	**47.4**	<1.0	1.4	<1.0	2.1	13	3.6	<1.0	<1.0	<1.0	<1.0	**227**	<1.0	**110**	**572**	<50	**1,600**
	12/27/2011	<5.0	**455**	11.9	**45.6**	<5.0	<5.0	<5.0	<5.0	5.8	<5.0	<5.0	<5.0	<5.0	<5.0	**218**	<5.0	**113**	**1,010**	<50	**3,210**
	11/28/2012	<5.0	**330**	10	**35**	<25	9.6	<5.0	<5.0	12	<10	<5.0	<5.0	<5.0	<5.0	**260**	<5.0	**150**	<10	<4	30
2L Groundwater Standard [1]		7	20	200	6	NS	70	1	70	50	70	70	NS	70	70	0.7	100	3	10	NS	1,000

Notes:
Bold indicates an exceedance of the 2L Groundwater Standard
1) North Carolina 15A NCAC 02L.0202 Groundwater Quality Standards (January 2010)
All concentrations reported in µg/L
NA = Not Analyzed, NS = Not Specified, BDL = Below laboratory detection limits, actual reporting limit unavailable
Only compounds detected in at least one sample are included in the table above
Note that MW-7IR was reported as MW-7SR in the November 2012 lab data

Table 3
Surface Water Analytical Results
Former Alpha Mill
Charlotte, North Carolina
H&H Job No. CRO-016

Sample ID	Sampling Date	1,2-Dichlorobenzene	Chloroform	Tetrachloroethene	Trichloroethene	Total Chromium	Chromium VI	Copper
SUR-4	12/20/2000	3.2	<1	**50**	10	63.6	<0.025	93.2
	5/19/2003 [1]	2.9	<1	**18**	6.8	160	50	88
	12/4/2006	0.56	0.97	**16**	<2	31	10	29
	12/4/2007	1.10	<1.0	**29**	13	27	8	21
	12/9/2008	<1.0	<1.0	**37**	22	23	<25	19
	12/3/2009	<1.0	<1.0	**23**	13	23	<25	31
	11/30/2010	<1.0	<1.0	**25.6**	14.3	12.0	<50	14.0
	12/27/2011	<1.0	<1.0	<1.0	<1.0	8.8	<50	24.3
	11/28/2012	<1.0	<2.0	**14**	7.7	<10	<4.0	<10
Surface Water Standard [2]	Freshwater Aquatic Life	NS	NS	NS	NS	50	11 [3]	7
	Human Health	NS	170 [4]	3	30	NS	NS	NS

Notes:
Underlined indicates exceedance of the Surface Water Standard for Freshwater Aquatic Life
Bold indicates exceedance of the Surface Water Standard for Human Health
NA = Not Analyzed, NS = Not Specified, BDL = Below laboratory detection limits
All concentrations reported in µg/L
Cis-1,2-dichloroethene was detected at a concentration of 2.2 µg/L in November 2012 below its Surface Water Standard
1) Sample ID SW-C collected in May 2003 from the same location as SW-4
2) North Carolina 15A NCAC 2B Surface Water and Wetland Standards (May 1, 2007) unless otherwise denoted
3) EPA's 2006 National Recommended Water Quality Criteria; 11/02 Human Health Calculation Matrix
4) EPA's 2006 National Recommended Water Quality Criteria; 11/02 Human Health Calculation Matrix and Risk Assessment Information System 2/07



N

APPROXIMATE

0 2000 4000

SCALE IN FEET

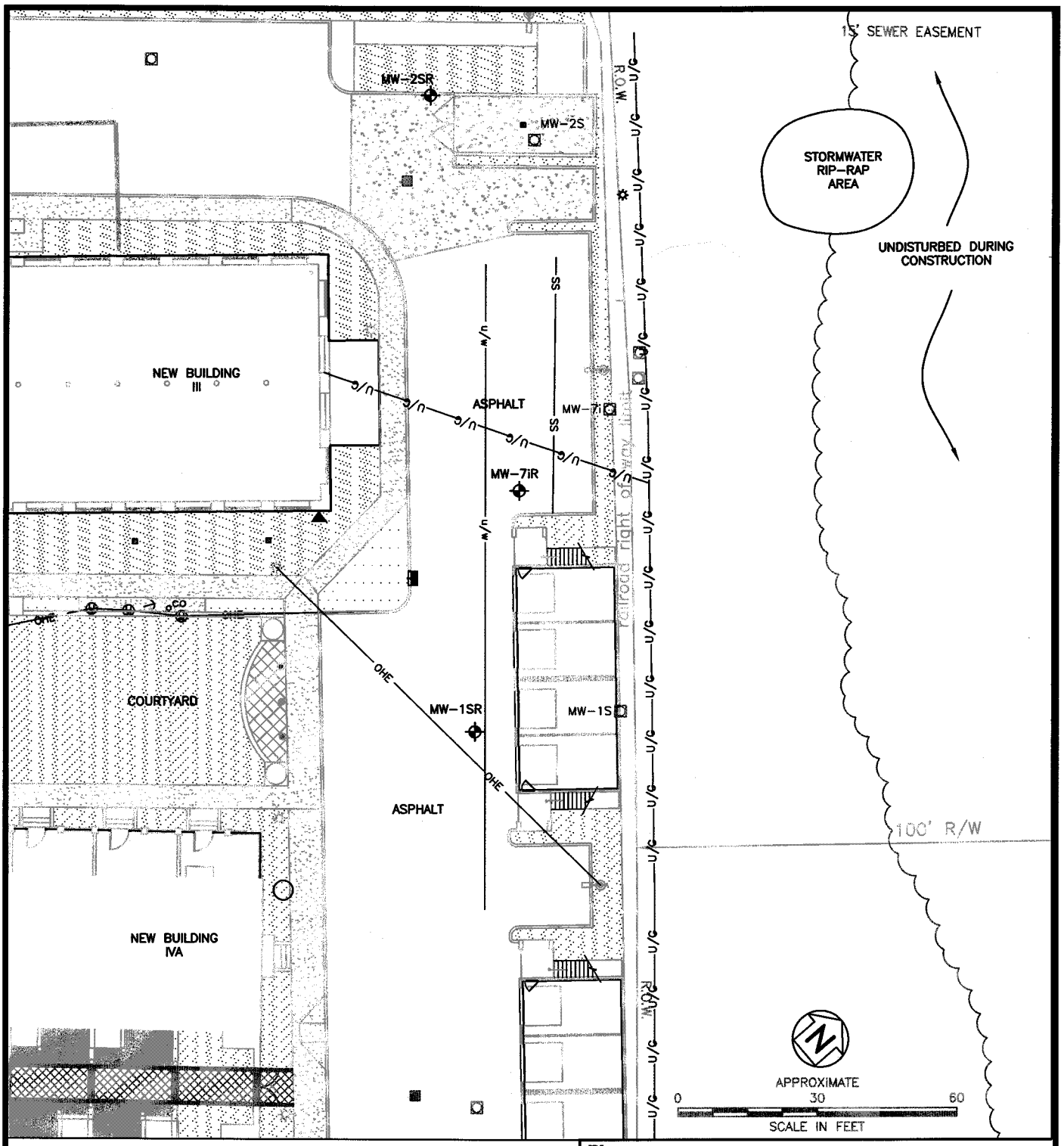
U.S.G.S. QUADRANGLE MAP

CHARLOTTE EAST, NC 1967
PHOTO REVISED 1988

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	**SITE LOCATION MAP**
PROJECT	FORMER ALPHA MILL CHARLOTTE, NORTH CAROLINA
hart hickman	*2923 S. Tryon Street, Suite 100* *Charlotte, NC 28203* *704.586.0007(p) 704.586.0373(f)*

DATE:	12-7-2012	REVISION NO:	0
JOB NO:	CRO-016	FIGURE:	1



LEGEND

- SS — UNDERGROUND SANITARY SEWER LINE
- u/w — UNDERGROUND WATER LINE
- OHE — OVERHEAD ELECTRICAL LINE
- U/G — UNDERGROUND ELECTRICAL LINE
- MONITORING WELL
- FORMER/ABANDONED WELL LOCATION

TITLE

MONITORING WELL LOCATION MAP

PROJECT

FORMER ALPHA MILL
CHARLOTTE, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12-14-12	REVISION NO. 0
JOB NO: CRO-016	FIGURE NO. 2

S:\AAA-Master Projects\Crosland - CRO\CRO-016\Figures\Site Map Fig 2_CRO-016.dwg, Layout2, 1/15/2013 11:25:34 AM, nfoster

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December 6, 2012

Chad Grubbs
Hart & Hickman - Charlotte, NC
2923 South Tryon Street, Suite 100
Charlotte, NC 28203

Project Location: Former Alpha Mills
Client Job Number:
Project Number: CR0-015
Laboratory Work Order Number: 12K0925

Enclosed are results of analyses for samples received by the laboratory on November 28, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Worthington

Lisa A. Worthington
Project Manager

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Hart & Hickman - Charlotte, NC
2923 South Tryon Street, Suite 100
Charlotte, NC 28203
ATTN: Chad Grubbs

REPORT DATE: 12/6/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: CR0-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12K0925

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Former Alpha Mills

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1SR	12K0925-01	Ground Water		SW-846 6010C	
				SW-846 7196A	
				SW-846 8260B	
MW-2SR	12K0925-02	Ground Water		SW-846 6010C	
				SW-846 7196A	
				SW-846 8260B	
MW-7SR	12K0925-03	Ground Water		SW-846 6010C	
				SW-846 7196A	
				SW-846 8260B	
SUR-4	12K0925-04	Ground Water		SW-846 6010C	
				SW-846 7196A	
				SW-846 8260B	
Trip Blank	12K0925-05	Trip Blank Water		SW-846 8260B	

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 12/06/12: Removed "J" flags per client request.

SW-846 7196A

Qualifications:

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Hexavalent Chromium

12K0925-02[MW-2SR], B063803-DUP2

SW-846 8260B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

1,4-Dioxane, Acrylonitrile, tert-Butylbenzene

B063766-BS1, B063766-BSD1

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Tetrachloroethylene

12K0925-01[MW-1SR], 12K0925-02[MW-2SR], 12K0925-03[MW-7SR], 12K0925-04[SUR-4], B063766-BS1, B063766-BSD1

Elevated reporting limit due to high concentration of target compounds. Requested reporting limit not met.

Analyte & Samples(s) Qualified:

12K0925-01[MW-1SR], 12K0925-02[MW-2SR], 12K0925-03[MW-7SR]

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

12K0925-01[MW-1SR], 12K0925-02[MW-2SR], 12K0925-03[MW-7SR], 12K0925-04[SUR-4], 12K0925-05[Trip Blank], B063766-BLK1, B063766-BS1, B063766-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,4-Dioxane, Bromomethane, tert-Butyl Alcohol (TBA)

B063766-BS1, B063766-BSD1

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-1SR | Sampled: 11/28/2012 11:40

Sample ID: 12K0925-01

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1200	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Acrylonitrile	ND	120	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
tert-Amyl Methyl Ether (TAME)	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Benzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Bromobenzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Bromochloromethane	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Bromodichloromethane	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Bromoform	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Bromomethane	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
2-Butanone (MEK)	ND	500	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
tert-Butyl Alcohol (TBA)	ND	500	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
n-Butylbenzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
sec-Butylbenzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
tert-Butylbenzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Carbon Disulfide	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Carbon Tetrachloride	ND	120	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Chlorobenzene	2200	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Chlorodibromomethane	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Chloroethane	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Chloroform	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Chloromethane	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
2-Chlorotoluene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
4-Chlorotoluene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	120	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,2-Dibromoethane (EDB)	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Dibromomethane	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,2-Dichlorobenzene	3300	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,3-Dichlorobenzene	140	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,4-Dichlorobenzene	410	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
trans-1,4-Dichloro-2-butene	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Dichlorodifluoromethane (Freon 12)	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,1-Dichloroethane	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,2-Dichloroethane	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,1-Dichloroethylene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
cis-1,2-Dichloroethylene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
trans-1,2-Dichloroethylene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,2-Dichloropropane	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,3-Dichloropropane	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
2,2-Dichloropropane	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,1-Dichloropropene	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
cis-1,3-Dichloropropene	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
trans-1,3-Dichloropropene	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Diethyl Ether	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-1SR | Sampled: 11/28/2012 11:40

Sample ID: 12K0925-01

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,4-Dioxane	ND	1200	µg/L	25	V-16	SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Ethylbenzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Hexachlorobutadiene	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
2-Hexanone (MBK)	ND	250	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Isopropylbenzene (Cumene)	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
p-Isopropyltoluene (p-Cymene)	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Methyl tert-Butyl Ether (MTBE)	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Methylene Chloride	ND	120	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
4-Methyl-2-pentanone (MIBK)	ND	250	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Naphthalene	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
n-Propylbenzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Styrene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,1,1,2-Tetrachloroethane	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,1,2,2-Tetrachloroethane	ND	12	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Tetrachloroethylene	370	25	µg/L	25	L-06	SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Tetrahydrofuran	ND	250	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Toluene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,2,3-Trichlorobenzene	ND	120	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,2,4-Trichlorobenzene	50	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,3,5-Trichlorobenzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,1,1-Trichloroethane	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,1,2-Trichloroethane	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Trichloroethylene	180	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Trichlorofluoromethane (Freon 11)	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,2,3-Trichloropropane	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,2,4-Trimethylbenzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
1,3,5-Trimethylbenzene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
Vinyl Chloride	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
m+p Xylene	ND	50	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD
o-Xylene	ND	25	µg/L	25		SW-846 8260B	11/30/12	12/3/12 15:53	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	95.3	70-130		12/3/12 15:53
Toluene-d8	99.6	70-130		12/3/12 15:53
4-Bromofluorobenzene	98.2	70-130		12/3/12 15:53

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills
Sample Description:
Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-1SR
Sampled: 11/28/2012 11:40

Sample ID: 12K0925-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	0.023	0.010	mg/L	1		SW-846 6010C	11/30/12	11/30/12 17:32	OP
Copper	ND	0.010	mg/L	1		SW-846 6010C	11/30/12	11/30/12 17:32	OP

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills
Sample Description:
Work Order: 12K0925
Date Received: 11/28/2012
Field Sample #: MW-1SR
Sampled: 11/28/2012 11:40
Sample ID: 12K0925-01
Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	0.033	0.0040	mg/L	1		SW-846 7196A	11/29/12	11/29/12 11:00	LL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-2SR | Sampled: 11/28/2012 12:15

Sample ID: 12K0925-02

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Acrylonitrile	ND	10	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Benzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Bromoform	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Bromomethane	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Carbon Disulfide	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Chloroethane	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Chloroform	6.8	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Chloromethane	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,1-Dichloroethylene	3.8	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
cis-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-2SR | Sampled: 11/28/2012 12:15

Sample ID: 12K0925-02

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,4-Dioxane	ND	100	µg/L	2	V-16	SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Hexachlorobutadiene	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Methylene Chloride	ND	10	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Naphthalene	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Styrene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Tetrachloroethylene	190	2.0	µg/L	2	L-06	SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Toluene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Trichloroethylene	120	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD
o-Xylene	ND	2.0	µg/L	2		SW-846 8260B	11/30/12	12/3/12 16:23	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	96.1	70-130		12/3/12 16:23
Toluene-d8	96.4	70-130		12/3/12 16:23
4-Bromofluorobenzene	98.4	70-130		12/3/12 16:23

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills
Sample Description:
Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-2SR
Sampled: 11/28/2012 12:15

Sample ID: 12K0925-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	0.014	0.010	mg/L	1		SW-846 6010C	11/30/12	11/30/12 17:56	OP
Copper	ND	0.010	mg/L	1		SW-846 6010C	11/30/12	11/30/12 17:56	OP

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills
Sample Description:
Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-2SR
Sampled: 11/28/2012 12:15

Sample ID: 12K0925-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	0.016	0.0040	mg/L	1	R-04	SW-846 7196A	11/29/12	11/29/12 11:00	LL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-7SR | Sampled: 11/28/2012 12:00

Sample ID: 12K0925-03

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Acrylonitrile	ND	25	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Benzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Bromoform	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Bromomethane	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Carbon Disulfide	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Chlorobenzene	12	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Chloroethane	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Chloroform	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Chloromethane	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,2-Dichlorobenzene	330	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,3-Dichlorobenzene	10	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,4-Dichlorobenzene	35	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Diethyl Ether	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-7SR | Sampled: 11/28/2012 12:00

Sample ID: 12K0925-03

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,4-Dioxane	ND	250	µg/L	5	V-16	SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Hexachlorobutadiene	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Methylene Chloride	ND	25	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Naphthalene	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Styrene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Tetrachloroethylene	260	5.0	µg/L	5	L-06	SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Toluene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,2,4-Trichlorobenzene	9.6	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Trichloroethylene	150	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
m+p Xylene	ND	10	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD
o-Xylene	ND	5.0	µg/L	5		SW-846 8260B	11/30/12	12/3/12 16:54	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	97.0	70-130		12/3/12 16:54
Toluene-d8	98.2	70-130		12/3/12 16:54
4-Bromofluorobenzene	101	70-130		12/3/12 16:54

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills
Sample Description:
Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-7SR
Sampled: 11/28/2012 12:00

Sample ID: 12K0925-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.010	mg/L	1		SW-846 6010C	11/30/12	11/30/12 18:00	OP
Copper	0.030	0.010	mg/L	1		SW-846 6010C	11/30/12	11/30/12 18:00	OP

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills
Sample Description:
Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: MW-7SR
Sampled: 11/28/2012 12:00

Sample ID: 12K0925-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.0040	mg/L	1		SW-846 7196A	11/29/12	11/29/12 11:00	LL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: SUR-4 | Sampled: 11/28/2012 11:30

Sample ID: 12K0925-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Carbon Disulfide	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
cis-1,2-Dichloroethylene	2.2	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: SUR-4 | Sampled: 11/28/2012 11:30

Sample ID: 12K0925-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Tetrachloroethylene	14	1.0	µg/L	1	L-06	SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Trichloroethylene	7.7	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:48	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	97.2	70-130		12/3/12 11:48
Toluene-d8	97.9	70-130		12/3/12 11:48
4-Bromofluorobenzene	95.5	70-130		12/3/12 11:48

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills
Sample Description:
Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: SUR-4
Sampled: 11/28/2012 11:30

Sample ID: 12K0925-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.010	mg/L	1		SW-846 6010C	11/30/12	12/3/12 11:43	OP
Copper	ND	0.010	mg/L	1		SW-846 6010C	11/30/12	12/3/12 11:43	OP

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ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills
Sample Description:
Work Order: 12K0925
Date Received: 11/28/2012
Field Sample #: SUR-4
Sampled: 11/28/2012 11:30
Sample ID: 12K0925-04
Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.0040	mg/L	1		SW-846 7196A	11/29/12	11/29/12 11:00	LL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: Trip Blank | Sampled: 11/28/2012 00:00

Sample ID: 12K0925-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Carbon Disulfide	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Former Alpha Mills | Sample Description: | Work Order: 12K0925

Date Received: 11/28/2012

Field Sample #: Trip Blank | Sampled: 11/28/2012 00:00

Sample ID: 12K0925-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260B	11/30/12	12/3/12 11:18	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	98.9	70-130		12/3/12 11:18
Toluene-d8	102	70-130		12/3/12 11:18
4-Bromofluorobenzene	97.2	70-130		12/3/12 11:18

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SM 3030C-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12K0925-01 [MW-1SR]	B063754	50.0	50.0	11/30/12
12K0925-02 [MW-2SR]	B063754	50.0	50.0	11/30/12
12K0925-03 [MW-7SR]	B063754	50.0	50.0	11/30/12
12K0925-04 [SUR-4]	B063754	50.0	50.0	11/30/12

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12K0925-01 [MW-1SR]	B063803	50.0	50.0	11/29/12
12K0925-02 [MW-2SR]	B063803	50.0	50.0	11/29/12
12K0925-03 [MW-7SR]	B063803	50.0	50.0	11/29/12
12K0925-04 [SUR-4]	B063803	50.0	50.0	11/29/12

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12K0925-01 [MW-1SR]	B063766	0.2	5.00	11/30/12
12K0925-02 [MW-2SR]	B063766	2.5	5.00	11/30/12
12K0925-03 [MW-7SR]	B063766	1	5.00	11/30/12
12K0925-04 [SUR-4]	B063766	5	5.00	11/30/12
12K0925-05 [Trip Blank]	B063766	5	5.00	11/30/12

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B063766 - SW-846 5030B										
Blank (B063766-BLK1)				Prepared: 11/30/12 Analyzed: 12/03/12						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	2.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B063766 - SW-846 5030B												
Blank (B063766-BLK1)				Prepared: 11/30/12 Analyzed: 12/03/12								
Methylene Chloride	ND	5.0	µg/L									
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L									
Naphthalene	ND	2.0	µg/L									
n-Propylbenzene	ND	1.0	µg/L									
Styrene	ND	1.0	µg/L									
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L									
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L									
Tetrachloroethylene	ND	1.0	µg/L									
Tetrahydrofuran	ND	10	µg/L									
Toluene	ND	1.0	µg/L									
1,2,3-Trichlorobenzene	ND	5.0	µg/L									
1,2,4-Trichlorobenzene	ND	1.0	µg/L									
1,3,5-Trichlorobenzene	ND	1.0	µg/L									
1,1,1-Trichloroethane	ND	1.0	µg/L									
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*24.4*		µg/L	25.0		97.5		70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.8		70-130				
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.4		70-130				
LCS (B063766-BS1)				Prepared: 11/30/12 Analyzed: 12/03/12								
Acetone	117	50	µg/L	100		117		70-160		25		†
Acrylonitrile	232	5.0	µg/L	100		**232**	*	70-130		25	L-02	
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.0		106		70-130		25		
Benzene	9.94	1.0	µg/L	10.0		99.4		70-130		25		
Bromobenzene	10.2	1.0	µg/L	10.0		102		70-130		25		
Bromochloromethane	10.5	1.0	µg/L	10.0		105		70-130		25		
Bromodichloromethane	10.1	0.50	µg/L	10.0		101		70-130		25		
Bromoform	11.0	1.0	µg/L	10.0		110		70-130		25		
Bromomethane	13.7	2.0	µg/L	10.0		137		40-160		25	V-20	†
2-Butanone (MEK)	98.9	20	µg/L	100		98.9		40-160		25		†
tert-Butyl Alcohol (TBA)	89.8	20	µg/L	100		89.8		40-160		25	V-20	†
n-Butylbenzene	10.5	1.0	µg/L	10.0		105		70-130		25		
sec-Butylbenzene	9.72	1.0	µg/L	10.0		97.2		70-130		25		
tert-Butylbenzene	29.3	1.0	µg/L	10.0		**293**	*	70-130		25	L-02	
tert-Butyl Ethyl Ether (TBEE)	9.39	0.50	µg/L	10.0		93.9		70-130		25		
Carbon Disulfide	98.7	2.0	µg/L	100		98.7		70-130		25		
Carbon Tetrachloride	12.4	5.0	µg/L	10.0		124		70-130		25		
Chlorobenzene	9.77	1.0	µg/L	10.0		97.7		70-130		25		
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111		70-130		25		
Chloroethane	11.8	2.0	µg/L	10.0		118		70-130		25		
Chloroform	10.2	2.0	µg/L	10.0		102		70-130		25		
Chloromethane	9.34	2.0	µg/L	10.0		93.4		40-160		25		†
2-Chlorotoluene	9.91	1.0	µg/L	10.0		99.1		70-130		25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B063766 - SW-846 5030B												
LCS (B063766-BS1)				Prepared: 11/30/12 Analyzed: 12/03/12								
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101		70-130		25		
1,2-Dibromo-3-chloropropane (DBCP)	9.66	5.0	µg/L	10.0		96.6		70-130		25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105		70-130		25		
Dibromomethane	10.5	1.0	µg/L	10.0		105		70-130		25		
1,2-Dichlorobenzene	9.64	1.0	µg/L	10.0		96.4		70-130		25		
1,3-Dichlorobenzene	9.74	1.0	µg/L	10.0		97.4		70-130		25		
1,4-Dichlorobenzene	9.90	1.0	µg/L	10.0		99.0		70-130		25		
trans-1,4-Dichloro-2-butene	71.0	2.0	µg/L	100		71.0		70-130		25		
Dichlorodifluoromethane (Freon 12)	8.22	2.0	µg/L	10.0		82.2		40-160		25		†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105		70-130		25		
1,2-Dichloroethane	9.97	1.0	µg/L	10.0		99.7		70-130		25		
1,1-Dichloroethylene	9.22	1.0	µg/L	10.0		92.2		70-130		25		
cis-1,2-Dichloroethylene	9.39	1.0	µg/L	10.0		93.9		70-130		25		
trans-1,2-Dichloroethylene	8.88	1.0	µg/L	10.0		88.8		70-130		25		
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100		70-130		25		
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102		70-130		25		
2,2-Dichloropropane	10.3	1.0	µg/L	10.0		103		40-130		25		†
1,1-Dichloropropene	10.1	2.0	µg/L	10.0		101		70-130		25		
cis-1,3-Dichloropropene	9.69	0.50	µg/L	10.0		96.9		70-130		25		
trans-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117		70-130		25		
Diethyl Ether	95.5	2.0	µg/L	100		95.5		70-130		25		
Diisopropyl Ether (DIPE)	10.1	0.50	µg/L	10.0		101		70-130		25		
1,4-Dioxane	147	50	µg/L	100		**147**	*	40-130		50	L-02, V-16, V-20	†
Ethylbenzene	10.2	1.0	µg/L	10.0		102		70-130		25		
Hexachlorobutadiene	11.1	0.50	µg/L	10.0		111		70-130		25		
2-Hexanone (MBK)	106	10	µg/L	100		106		70-160		25		†
Isopropylbenzene (Cumene)	10.0	1.0	µg/L	10.0		100		70-130		25		
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.0		107		70-130		25		
Methyl tert-Butyl Ether (MTBE)	111	1.0	µg/L	110		101		70-130		25		
Methylene Chloride	8.73	5.0	µg/L	10.0		87.3		70-130		25		
4-Methyl-2-pentanone (MIBK)	132	10	µg/L	100		132		70-160		25		†
Naphthalene	9.37	2.0	µg/L	10.0		93.7		40-130		25		†
n-Propylbenzene	9.79	1.0	µg/L	10.0		97.9		70-130		25		
Styrene	10.3	1.0	µg/L	10.0		103		70-130		25		
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104		70-130		25		
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100		70-130		25		
Tetrachloroethylene	14.2	1.0	µg/L	10.0		**142**	*	70-130		25	L-06	
Tetrahydrofuran	103	10	µg/L	100		103		70-130		25		
Toluene	10.1	1.0	µg/L	10.0		101		70-130		25		
1,2,3-Trichlorobenzene	9.22	5.0	µg/L	10.0		92.2		70-130		25		
1,2,4-Trichlorobenzene	9.08	1.0	µg/L	10.0		90.8		70-130		25		
1,3,5-Trichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130		25		
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105		70-130		25		
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102		70-130		25		
Trichloroethylene	11.4	1.0	µg/L	10.0		114		70-130		25		
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101		70-130		25		
1,2,3-Trichloropropane	10.0	2.0	µg/L	10.0		100		70-130		25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.0		107		70-130		25		
1,2,4-Trimethylbenzene	9.40	1.0	µg/L	10.0		94.0		70-130		25		
1,3,5-Trimethylbenzene	10.0	1.0	µg/L	10.0		100		70-130		25		
Vinyl Chloride	8.59	2.0	µg/L	10.0		85.9		40-160		25		†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B063766 - SW-846 5030B												
LCS (B063766-BS1)				Prepared: 11/30/12 Analyzed: 12/03/12								
m+p Xylene	20.2	2.0	µg/L	20.0		101		70-130		25		
o-Xylene	9.84	1.0	µg/L	10.0		98.4		70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*25.0*		µg/L	25.0		99.8		70-130				
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101		70-130				
LCS Dup (B063766-BSD1)				Prepared: 11/30/12 Analyzed: 12/03/12								
Acetone	121	50	µg/L	100		121		70-160	3.46	25		†
Acrylonitrile	239	5.0	µg/L	100		**239**	*	70-130	3.16	25	L-02	
tert-Amyl Methyl Ether (TAME)	11.0	0.50	µg/L	10.0		110		70-130	3.06	25		
Benzene	9.90	1.0	µg/L	10.0		99.0		70-130	0.403	25		
Bromobenzene	10.6	1.0	µg/L	10.0		106		70-130	4.14	25		
Bromochloromethane	10.8	1.0	µg/L	10.0		108		70-130	2.53	25		
Bromodichloromethane	10.3	0.50	µg/L	10.0		103		70-130	1.87	25		
Bromoform	12.4	1.0	µg/L	10.0		124		70-130	11.3	25		
Bromomethane	12.9	2.0	µg/L	10.0		129		40-160	5.78	25	V-20	†
2-Butanone (MEK)	109	20	µg/L	100		109		40-160	9.42	25		†
tert-Butyl Alcohol (TBA)	95.5	20	µg/L	100		95.5		40-160	6.09	25	V-20	†
n-Butylbenzene	10.7	1.0	µg/L	10.0		107		70-130	1.79	25		
sec-Butylbenzene	9.95	1.0	µg/L	10.0		99.5		70-130	2.34	25		
tert-Butylbenzene	31.0	1.0	µg/L	10.0		**310**	*	70-130	5.58	25	L-02	
tert-Butyl Ethyl Ether (TBEE)	9.39	0.50	µg/L	10.0		93.9		70-130	0.00	25		
Carbon Disulfide	95.7	2.0	µg/L	100		95.7		70-130	3.11	25		
Carbon Tetrachloride	11.8	5.0	µg/L	10.0		118		70-130	4.97	25		
Chlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	2.92	25		
Chlorodibromomethane	11.8	0.50	µg/L	10.0		118		70-130	6.45	25		
Chloroethane	11.1	2.0	µg/L	10.0		111		70-130	5.59	25		
Chloroform	10.3	2.0	µg/L	10.0		103		70-130	0.781	25		
Chloromethane	8.62	2.0	µg/L	10.0		86.2		40-160	8.02	25		†
2-Chlorotoluene	9.97	1.0	µg/L	10.0		99.7		70-130	0.604	25		
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104		70-130	2.83	25		
1,2-Dibromo-3-chloropropane (DBCP)	11.3	5.0	µg/L	10.0		113		70-130	15.6	25		
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114		70-130	8.13	25		
Dibromomethane	10.7	1.0	µg/L	10.0		107		70-130	2.07	25		
1,2-Dichlorobenzene	9.93	1.0	µg/L	10.0		99.3		70-130	2.96	25		
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	3.63	25		
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	1.70	25		
trans-1,4-Dichloro-2-butene	81.2	2.0	µg/L	100		81.2		70-130	13.4	25		
Dichlorodifluoromethane (Freon 12)	8.00	2.0	µg/L	10.0		80.0		40-160	2.71	25		†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102		70-130	2.81	25		
1,2-Dichloroethane	10.3	1.0	µg/L	10.0		103		70-130	3.06	25		
1,1-Dichloroethylene	8.97	1.0	µg/L	10.0		89.7		70-130	2.75	25		
cis-1,2-Dichloroethylene	9.58	1.0	µg/L	10.0		95.8		70-130	2.00	25		
trans-1,2-Dichloroethylene	8.89	1.0	µg/L	10.0		88.9		70-130	0.113	25		
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100		70-130	0.0997	25		
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106		70-130	3.46	25		
2,2-Dichloropropane	10.6	1.0	µg/L	10.0		106		40-130	2.30	25		†
1,1-Dichloropropene	9.66	2.0	µg/L	10.0		96.6		70-130	4.06	25		
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101		70-130	4.14	25		
trans-1,3-Dichloropropene	12.6	0.50	µg/L	10.0		126		70-130	6.75	25		
Diethyl Ether	95.8	2.0	µg/L	100		95.8		70-130	0.324	25		
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.0		103		70-130	1.87	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B063766 - SW-846 5030B												
LCS Dup (B063766-BSD1)				Prepared: 11/30/12 Analyzed: 12/03/12								
1,4-Dioxane	149	50	µg/L	100		**149**	*	40-130	1.63	50	L-02, V-16, V-20	† ‡
Ethylbenzene	10.2	1.0	µg/L	10.0		102		70-130	0.0980	25		
Hexachlorobutadiene	11.4	0.50	µg/L	10.0		114		70-130	2.32	25		
2-Hexanone (MBK)	122	10	µg/L	100		122		70-160	14.3	25		†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102		70-130	1.87	25		
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.0		107		70-130	0.281	25		
Methyl tert-Butyl Ether (MTBE)	118	1.0	µg/L	110		107		70-130	6.16	25		
Methylene Chloride	8.34	5.0	µg/L	10.0		83.4		70-130	4.57	25		
4-Methyl-2-pentanone (MIBK)	152	10	µg/L	100		152		70-160	13.7	25		†
Naphthalene	10.4	2.0	µg/L	10.0		104		40-130	10.2	25		†
n-Propylbenzene	9.93	1.0	µg/L	10.0		99.3		70-130	1.42	25		
Styrene	10.4	1.0	µg/L	10.0		104		70-130	0.776	25		
1,1,1,2-Tetrachloroethane	11.0	1.0	µg/L	10.0		110		70-130	5.69	25		
1,1,2,2-Tetrachloroethane	11.1	0.50	µg/L	10.0		111		70-130	10.5	25		
Tetrachloroethylene	14.2	1.0	µg/L	10.0		**142**	*	70-130	0.211	25	L-06	
Tetrahydrofuran	113	10	µg/L	100		113		70-130	9.32	25		
Toluene	10.2	1.0	µg/L	10.0		102		70-130	0.987	25		
1,2,3-Trichlorobenzene	9.84	5.0	µg/L	10.0		98.4		70-130	6.51	25		
1,2,4-Trichlorobenzene	9.67	1.0	µg/L	10.0		96.7		70-130	6.29	25		
1,3,5-Trichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130	2.41	25		
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104		70-130	1.05	25		
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108		70-130	6.09	25		
Trichloroethylene	11.6	1.0	µg/L	10.0		116		70-130	1.65	25		
Trichlorofluoromethane (Freon 11)	9.77	2.0	µg/L	10.0		97.7		70-130	3.62	25		
1,2,3-Trichloropropane	11.1	2.0	µg/L	10.0		111		70-130	10.3	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	µg/L	10.0		106		70-130	0.749	25		
1,2,4-Trimethylbenzene	9.80	1.0	µg/L	10.0		98.0		70-130	4.17	25		
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0		104		70-130	3.72	25		
Vinyl Chloride	8.41	2.0	µg/L	10.0		84.1		40-160	2.12	25		†
m+p Xylene	20.3	2.0	µg/L	20.0		102		70-130	0.395	25		
o-Xylene	9.93	1.0	µg/L	10.0		99.3		70-130	0.910	25		
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.0		70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100		70-130				
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102		70-130				

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B063754 - SM 3030C										
Blank (B063754-BLK1)				Prepared & Analyzed: 11/30/12						
Chromium	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
LCS (B063754-BS1)				Prepared & Analyzed: 11/30/12						
Chromium	0.500	0.010	mg/L	0.500		100	80-120		20	
Copper	0.506	0.010	mg/L	0.500		101	80-120		20	
LCS Dup (B063754-BSD1)				Prepared & Analyzed: 11/30/12						
Chromium	0.496	0.010	mg/L	0.500		99.2	80-120	0.744	20	
Copper	0.501	0.010	mg/L	0.500		100	80-120	1.14	20	
Duplicate (B063754-DUP1)	**Source: 12K0925-01**			Prepared & Analyzed: 11/30/12						
Chromium	0.0231	0.010	mg/L		0.0233			0.984	20	
Copper	ND	0.010	mg/L		ND			NC	20	
Matrix Spike (B063754-MS1)	**Source: 12K0925-01**			Prepared & Analyzed: 11/30/12						
Chromium	0.523	0.010	mg/L	0.500	0.0233	99.9	75-125		20	
Copper	0.508	0.010	mg/L	0.500	ND	102	75-125		20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B063803 - SW-846 7196A											
Blank (B063803-BLK1)				Prepared & Analyzed: 11/29/12							
Hexavalent Chromium	ND	0.0040	mg/L								
LCS (B063803-BS1)				Prepared & Analyzed: 11/29/12							
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		104	80-120			20	
LCS Dup (B063803-BSD1)				Prepared & Analyzed: 11/29/12							
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		103	80-120	1.65		20	
Duplicate (B063803-DUP1)		**Source: 12K0925-01**		Prepared & Analyzed: 11/29/12							
Hexavalent Chromium	0.029	0.0040	mg/L		0.033			11.1		20	
Duplicate (B063803-DUP2)		**Source: 12K0925-02**		Prepared & Analyzed: 11/29/12							
Hexavalent Chromium	0.012	0.0040	mg/L		0.016			**24.8**	*	20	R-04
Matrix Spike (B063803-MS1)		**Source: 12K0925-04**		Prepared & Analyzed: 11/29/12							
Hexavalent Chromium	0.10	0.0040	mg/L	0.100	ND	104	75-125			20	
Matrix Spike Dup (B063803-MSD1)		**Source: 12K0925-04**		Prepared & Analyzed: 11/29/12							
Hexavalent Chromium	0.10	0.0040	mg/L	0.100	ND	103	75-125	1.65		20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-06	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
RL-01	Elevated reporting limit due to high concentration of target compounds. Requested reporting limit not met.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Chromium	CT,NH,NY,RI,ME,NC,VA
Copper	CT,NH,NY,RI,ME,NC,VA
SW-846 7196A in Water	
Hexavalent Chromium	CT,NH,NY,RI,NC,ME,VA
SW-846 8260B in Water	
Acetone	CT,NH,NY,NC,ME
Acrylonitrile	CT,NY,NC,ME,RI
tert-Amyl Methyl Ether (TAME)	NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME,RI
Bromobenzene	NC
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME,RI
Bromoform	CT,NH,NY,NC,ME,RI
Bromomethane	CT,NH,NY,NC,ME,RI
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NH,NY,NC,ME
n-Butylbenzene	NY,NC,ME
sec-Butylbenzene	NY,NC,ME
tert-Butylbenzene	NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME,RI
Chlorobenzene	CT,NH,NY,NC,ME,RI
Chlorodibromomethane	CT,NH,NY,NC,ME,RI
Chloroethane	CT,NH,NY,NC,ME,RI
Chloroform	CT,NH,NY,NC,ME,RI
Chloromethane	CT,NH,NY,NC,ME,RI
2-Chlorotoluene	NY,NC,ME
4-Chlorotoluene	NY,NC,ME
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC,ME
1,2-Dichlorobenzene	CT,NY,NC,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,NC,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,NC,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,NC,ME,RI
1,1-Dichloroethane	CT,NH,NY,NC,ME,RI
1,2-Dichloroethane	CT,NH,NY,NC,ME,RI
1,1-Dichloroethylene	CT,NH,NY,NC,ME,RI
cis-1,2-Dichloroethylene	NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME,RI
1,2-Dichloropropane	CT,NH,NY,NC,ME,RI
1,3-Dichloropropane	NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME,RI
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NH,NY,NC,ME
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC,ME,RI
Hexachlorobutadiene	CT,NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	NY,NC,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,NC,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,NC,ME
Methylene Chloride	CT,NH,NY,NC,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC,ME
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	CT,NH,NY,NC,ME
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME,RI
Tetrachloroethylene	CT,NH,NY,NC,ME,RI
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,ME,RI
1,2,3-Trichlorobenzene	NH,NY,NC,ME
1,2,4-Trichlorobenzene	CT,NH,NY,NC,ME
1,3,5-Trichlorobenzene	NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,NC,ME,RI
Trichloroethylene	CT,NH,NY,NC,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME,RI
1,2,3-Trichloropropane	NH,NY,NC,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NY,NC,ME
1,3,5-Trimethylbenzene	NY,NC,ME
Vinyl Chloride	CT,NH,NY,NC,ME,RI
m+p Xylene	CT,NH,NY,NC,ME,RI
o-Xylene	CT,NH,NY,NC,ME,RI

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2012
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

CHAIN OF CUSTODY RECORD

12K0925

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: HART + HICKMAN, PC
Address: 2923 S. TRYON ST. SUITE 100
CHARLOTTE, NC 28203
Attention: CHAD GRUBBS
Project Location: FORMER ALPHA MILLS
Sampled By: RALPH MCGEE

Telephone: 704.586.0007
Project # CRO-015
Client PO#

DATA DELIVERY (check all that apply)
O FAX X EMAIL O WEBSITE
Fax #
Email: cgrubbs@hartthickman.com
Format: X PDF X EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

Analysis Requested

																			# of Containers
																			** Preservation
																			***Container Code
Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs by 8260B	Total Chromium Total Copper by 6010B	Hexavalent Chromium by 7196A									
								3	1	1									
								H	N	I									
								GV	P	P									
-01	MW-1SR		11/28/12 11:30		X	GW		X	X	X									
02	MW-2SR		11/28/12 12:15		X	GW		X	X	X									
03	MW-7SR		11/28/12 12:00		X	GW		X	X	X									
04	SUR-4		11/28/12 11:30		X	GW		X	X	X									
05	TRIP BLANK		11/28/12					X											

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time:
Ralph McGee	11/28/12 13:30
Received by: (signature)	Date/Time:
[illegible]	11/28/12 13:30
Relinquished by: (signature)	Date/Time:
[illegible]	11/28/12 8:00 PM
Received by: (signature)	Date/Time:
Klanfenkowski 2.6°C	11/29/12 10:12

Turnaround ††
X 5-Day
O 5-7-Day
O 10-Day
RUSH †
O †24-Hr † 48-Hr
O †72-Hr † 4-Day
† Requires Lab Approval

Detection Limit Requirements
North Carolina
O 2L
O GWPC
O SWSL
O OTHER

Program Information
O DSCA O IHSB Orphaned Landfill
O SWS Landfill O UST O REC
O Other: _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

FedEx.

801106343170

Ship (P/U) date :
Wed 11/28/2012 8:25 pm
CHA US

Delivered
Signed for by: A.PIENKOWSKI

Actual delivery :
Thur 11/29/2012 10:12 am
US

2 Piece shipment

Travel History

Date/Time	Activity	Location
- 11/29/2012 - Thursday		
10:12 am	Delivered	
8:21 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:27 am	At local FedEx facility	WINDSOR LOCKS, CT
6:23 am	At destination sort facility	EAST GRANBY, CT
4:36 am	Departed FedEx location	INDIANAPOLIS, IN
12:08 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 11/28/2012 - Wednesday		
10:26 pm	Left FedEx origin facility	PINEVILLE, NC
8:25 pm	Picked up Tendered at FedEx Office	CHARLOTTE, NC

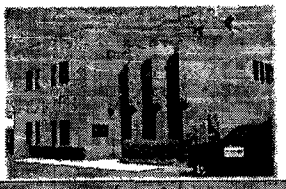
Local Scan Time

Shipment Facts

Tracking number	801106343170	**Service**	FedEx Priority Overnight
Master tracking number	801106343170	**Dimensions**	16x16x9 in.
		Total pieces	2
Delivered To	Shipping/Receiving	**Packaging**	Your Packaging
Shipper reference	80		
Special handling section	Deliver Weekday		

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Hart + Hickman **RECEIVED BY:** AP **DATE:** 11/29/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.6°C

5) Are there Dissolved samples for the lab to filter? (Yes) No Metals NC filtering

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified LL Date 11/29/12 Time 10:30

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: (Yes) No N/A <2.0

9) Do all samples have the proper Base pH: Yes No (N/A)

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	8	Plastic Bag / Ziploc	
40 mL Vial - type listed below	15	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 15 # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

HAZ~MAT

ENVIRONMENTAL SERVICES
P.O. BOX 37392 • CHARLOTTE, N.C. 28237
(704) 332-5600
FAX (704) 375-7183

Manifest No. 58235

P.O. No.

Job No.

NON-HAZARDOUS SPECIAL WASTE

Section I. GENERATOR (Generator complete all of Section I)

GENERATOR LOCATION

NAME

ORIGINATING ADDRESS

MAILING ADDRESS

CITY STATE ZIP

PHONE NO.

CONTACT NAME

WORK CONTRACTED BY
Bill To (If different from information at left)

NAME

ADDRESS

CITY STATE ZIP

PHONE NO.

CONTACT NAME

DES. OF WASTE:

No. Type Units Quantity

Section II. INVOICE INFORMATION

DESCRIPTION	QUANTITY GALLONS	QUANTITY DRUMS	LINE TOTAL	
1. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR AFVR				
2. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS				
3. SOLUBLE OILS OR COOLANTS PUMPED FROM STORAGE				
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA				
5. 55-GALLON DRUM REMOVED - SOLID OR EMPTY				
6. 55-GALLON DRUM REMOVED - LIQUID				
7.				
8.				
9.				
10. ARRIVAL TIME: DEPARTURE TIME:				

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name Signature Shipment Date

Section III. TRANSPORTER

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

HAZ~MAT
ENVIRONMENTAL SERVICES
P.O. BOX 37392 • CHARLOTTE, N.C. 28237

a. Driver Name/Title

b. Phone No. c. Truck No.

Hazardous Waste Transporter Permits
EPA NCR 000003186
EPA NCD048461370

d. Driver Signature Shipment Date

TRANSPORTER II

e. Name

f. Address

g. Driver Name/Title

h. Phone No. i. Truck No.

j. Transporter II Permit Nos.

Driver Signature Shipment Date

Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Haz-Mat Environmental Services

Physical Address: 210 Dalton Avenue, Charlotte, N.C. 28206

a. Phone No. 704-332-5600

b. Mailing Address: P.O. Box 37392, Charlotte, N.C. 28237

c. Discrepancy Indication Space

This is to certify that all non-hazardous material removed from above location has been received and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation, then into the CMUD sanitation sewer system under permit IUP#5012. (3) Sludges from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT	DATE	MONTH	DAY	YEAR

ORIGINAL - FINAL T.S.D. • YELLOW - DISPOSER • PINK - 1ST T.S.D. • GOLD - GENERATOR