con-test® ANALYTICAL LABORATORY

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

Project Location: CCCC | Sample Description: | Work Order: 12I0349

Date Received: 9/12/2012

Field Sample #: Concrete-11A-0-0.5in | Sampled: 9/10/2012 13:10

Sample ID: 12I0349-31

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	17	mg/Kg	200		SW-846 8082A	9/13/12	9/19/12 13:30	MJC
Aroclor-1221 [1]	ND	17	mg/Kg	200		SW-846 8082A	9/13/12	9/19/12 13:30	MJC
Aroclor-1232 [2]	96	17	mg/Kg	200	O-04	SW-846 8082A	9/13/12	9/19/12 13:30	MJC
Aroclor-1242 [1]	ND	17	mg/Kg	200		SW-846 8082A	9/13/12	9/19/12 13:30	MJC
Aroclor-1248 [1]	ND	17	mg/Kg	200		SW-846 8082A	9/13/12	9/19/12 13:30	MJC
Aroclor-1254 [1]	ND	17	mg/Kg	200		SW-846 8082A	9/13/12	9/19/12 13:30	MJC
Aroclor-1260 [1]	ND	17	mg/Kg	200		SW-846 8082A	9/13/12	9/19/12 13:30	MJC
Aroclor-1262 [1]	ND	17	mg/Kg	200		SW-846 8082A	9/13/12	9/19/12 13:30	MJC
Aroclor-1268 [1]	ND	17	mg/Kg	200		SW-846 8082A	9/13/12	9/19/12 13:30	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	9/19/12 13:30
Decachlorobiphenyl [2]	*	30-150	S-01	9/19/12 13:30
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/19/12 13:30
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/19/12 13:30

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Project Location: CCCC | Sample Description: | Work Order: 12I0349

Date Received: 9/12/2012

Field Sample #: Concrete-11B-0.5-1.0in | Sampled: 9/10/2012 13:30

Sample ID: 12I0349-32

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	9/13/12	9/17/12 10:23	MJC
Aroclor-1221 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	9/13/12	9/17/12 10:23	MJC
Aroclor-1232 [2]	11	0.87	mg/Kg	10	O-04	SW-846 8082A	9/13/12	9/17/12 10:23	MJC
Aroclor-1242 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	9/13/12	9/17/12 10:23	MJC
Aroclor-1248 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	9/13/12	9/17/12 10:23	MJC
Aroclor-1254 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	9/13/12	9/17/12 10:23	MJC
Aroclor-1260 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	9/13/12	9/17/12 10:23	MJC
Aroclor-1262 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	9/13/12	9/17/12 10:23	MJC
Aroclor-1268 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	9/13/12	9/17/12 10:23	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.1	30-150		9/17/12 10:23
Decachlorobiphenyl [2]	88.2	30-150		9/17/12 10:23
Tetrachloro-m-xylene [1]	78.9	30-150		9/17/12 10:23
Tetrachloro-m-xylene [2]	86.8	30-150		9/17/12 10:23

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Project Location: CCCC | Sample Description: | Work Order: 12I0349

Date Received: 9/12/2012

Field Sample #: Concrete-13-0-0.5in | Sampled: 9/10/2012 14:10

Sample ID: 12I0349-35

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:06	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:06	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:06	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:06	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:06	MJC
Aroclor-1254 [2]	0.13	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:06	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:06	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:06	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:06	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.4	30-150		9/14/12 22:06
Decachlorobiphenyl [2]	78.2	30-150		9/14/12 22:06
Tetrachloro-m-xylene [1]	76.0	30-150		9/14/12 22:06
Tetrachloro-m-xylene [2]	79.7	30-150		9/14/12 22:06

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Project Location: CCCC | Sample Description: | Work Order: 12I0349

Date Received: 9/12/2012

Field Sample #: Concrete-14A-0-0.5in | Sampled: 9/11/2012 08:15

Sample ID: 12I0349-36

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/17/12	9/19/12 22:27	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/17/12	9/19/12 22:27	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/17/12	9/19/12 22:27	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/17/12	9/19/12 22:27	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/17/12	9/19/12 22:27	MJC
Aroclor-1254 [2]	0.22	0.10	mg/Kg	1		SW-846 8082A	9/17/12	9/19/12 22:27	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/17/12	9/19/12 22:27	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/17/12	9/19/12 22:27	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	9/17/12	9/19/12 22:27	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.7	30-150		9/19/12 22:27
Decachlorobiphenyl [2]	87.1	30-150		9/19/12 22:27
Tetrachloro-m-xylene [1]	82.0	30-150		9/19/12 22:27
Tetrachloro-m-xylene [2]	87.9	30-150		9/19/12 22:27

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Project Location: CCCC
Sample Description:
Work Order: 12I0349

Date Received: 9/12/2012

Field Sample #: Concrete-14B-0.5-1.0in
Sampled: 9/11/2012 08:30

Sample ID: 12I0349-37

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:31	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:31	MJC
Aroclor-1232 [1]	0.15	0.091	mg/Kg	1	O-04, P-02	SW-846 8082A	9/13/12	9/14/12 22:31	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:31	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:31	MJC
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:31	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:31	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:31	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:31	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	85.6	30-150		9/14/12 22:31
Decachlorobiphenyl [2]	80.7	30-150		9/14/12 22:31
Tetrachloro-m-xylene [1]	80.4	30-150		9/14/12 22:31
Tetrachloro-m-xylene [2]	84.5	30-150		9/14/12 22:31

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

Project Location: CCCC | Sample Description: | Work Order: 12I0349

Date Received: 9/12/2012

Field Sample #: Concrete-15A-0-0.5in | Sampled: 9/11/2012 08:45

Sample ID: 12I0349-38

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:43	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:43	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:43	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:43	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:43	MJC
Aroclor-1254 [2]	0.99	0.095	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:43	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:43	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:43	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	9/13/12	9/14/12 22:43	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	109	30-150		9/14/12 22:43
Decachlorobiphenyl [2]	103	30-150		9/14/12 22:43
Tetrachloro-m-xylene [1]	101	30-150		9/14/12 22:43
Tetrachloro-m-xylene [2]	106	30-150		9/14/12 22:43

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Project Location: CCCC
Sample Description:
Work Order: 12I0349

Date Received: 9/12/2012

Field Sample #: Concrete-15B-0.5-1.0in
Sampled: 9/11/2012 08:55

Sample ID: 12I0349-39

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/13/12	9/17/12 10:35	MJC
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/13/12	9/17/12 10:35	MJC
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/13/12	9/17/12 10:35	MJC
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/13/12	9/17/12 10:35	MJC
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/13/12	9/17/12 10:35	MJC
Aroclor-1254 [2]	0.33	0.087	mg/Kg	1		SW-846 8082A	9/13/12	9/17/12 10:35	MJC
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/13/12	9/17/12 10:35	MJC
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/13/12	9/17/12 10:35	MJC
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/13/12	9/17/12 10:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.2	30-150		9/17/12 10:35
Decachlorobiphenyl [2]	93.0	30-150		9/17/12 10:35
Tetrachloro-m-xylene [1]	85.1	30-150		9/17/12 10:35
Tetrachloro-m-xylene [2]	89.5	30-150		9/17/12 10:35

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12I0349-01 [Caulk-Brown-4]	B058823	0.529	10.0	09/14/12
12I0349-06 [Caulk-Yellow-1]	B058823	0.522	10.0	09/14/12
12I0349-07 [Caulk-Yellow-2]	B058823	0.535	10.0	09/14/12
12I0349-08 [Caulk-Yellow-3]	B058823	0.552	10.0	09/14/12
12I0349-09 [Caulk-Brown-5]	B058823	0.586	10.0	09/14/12
12I0349-10 [Caulk-Brown-6]	B058823	0.573	10.0	09/14/12
12I0349-11 [Caulk-Brown-7]	B058823	0.579	10.0	09/14/12
12I0349-12 [Caulk-Brown-8]	B058823	0.528	10.0	09/14/12
12I0349-13 [Caulk-Brown-9]	B058823	0.558	10.0	09/14/12
12I0349-14 [Caulk-Brown-10]	B058823	0.560	10.0	09/14/12
12I0349-15 [Caulk-Brown-11]	B058823	0.570	10.0	09/14/12
12I0349-16 [Caulk-Brown-12]	B058823	0.541	10.0	09/14/12
12I0349-17 [Caulk-Brown-13]	B058823	0.545	10.0	09/14/12
12I0349-21 [Dup-05]	B058823	0.566	10.0	09/14/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12I0349-02 [Expansion Joint - 1]	B058726	2.00	10.0	09/13/12
12I0349-03 [Expansion Joint - 2]	B058726	2.00	10.0	09/13/12
12I0349-04 [Expansion Joint - 3]	B058726	2.00	10.0	09/13/12
12I0349-05 [Concrete-7A-0-0.5in]	B058726	2.20	10.0	09/13/12
12I0349-18 [Concrete-7B-0.5-1.0in]	B058726	2.20	10.0	09/13/12
12I0349-20 [CMU-4A-0-0.5in]	B058726	2.20	10.0	09/13/12
12I0349-22 [Dup-06]	B058726	2.30	10.0	09/13/12
12I0349-23 [CMU-4b-0.5-1in]	B058726	2.10	10.0	09/13/12
12I0349-26 [Concrete-9A-0-0.5in]	B058726	2.30	10.0	09/13/12
12I0349-27 [Concrete-9B-0.5-1.0in]	B058726	2.20	10.0	09/13/12
12I0349-31 [Concrete-11A-0-0.5in]	B058726	2.30	10.0	09/13/12
12I0349-32 [Concrete-11B-0.5-1.0in]	B058726	2.30	10.0	09/13/12
12I0349-35 [Concrete-13-0-0.5in]	B058726	2.20	10.0	09/13/12
12I0349-37 [Concrete-14B-0.5-1.0in]	B058726	2.20	10.0	09/13/12
12I0349-38 [Concrete-15A-0-0.5in]	B058726	2.10	10.0	09/13/12
12I0349-39 [Concrete-15B-0.5-1.0in]	B058726	2.30	10.0	09/13/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12I0349-36RE1 [Concrete-14A-0-0.5in]	B058942	2.00	10.0	09/17/12

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12I0349-19RE1 [EB-05]	B059219	5.98	10.0	09/20/12
12I0349-30RE1 [EB-06]	B059219	5.98	10.0	09/20/12

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B059219 - SW-846 3546										
Blank (B059219-BLK1)				Prepared & Analyzed: 09/20/12						
Aroclor-1016	ND	0.033	mg/Kg							
Aroclor-1016 [2C]	ND	0.033	mg/Kg							
Aroclor-1221	ND	0.033	mg/Kg							
Aroclor-1221 [2C]	ND	0.033	mg/Kg							
Aroclor-1232	ND	0.033	mg/Kg							
Aroclor-1232 [2C]	ND	0.033	mg/Kg							
Aroclor-1242	ND	0.033	mg/Kg							
Aroclor-1242 [2C]	ND	0.033	mg/Kg							
Aroclor-1248	ND	0.033	mg/Kg							
Aroclor-1248 [2C]	ND	0.033	mg/Kg							
Aroclor-1254	ND	0.033	mg/Kg							
Aroclor-1254 [2C]	ND	0.033	mg/Kg							
Aroclor-1260	ND	0.033	mg/Kg							
Aroclor-1260 [2C]	ND	0.033	mg/Kg							
Aroclor-1262	ND	0.033	mg/Kg							
Aroclor-1262 [2C]	ND	0.033	mg/Kg							
Aroclor-1268	ND	0.033	mg/Kg							
Aroclor-1268 [2C]	ND	0.033	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.323*		mg/Kg	0.335		96.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.310*		mg/Kg	0.335		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.304*		mg/Kg	0.335		90.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.326*		mg/Kg	0.335		97.4	30-150			
LCS (B059219-BS1)				Prepared & Analyzed: 09/20/12						
Aroclor-1016	0.088	0.033	mg/Kg	0.0837		105	40-140			
Aroclor-1016 [2C]	0.093	0.033	mg/Kg	0.0837		111	40-140			
Aroclor-1260	0.093	0.033	mg/Kg	0.0837		111	40-140			
Aroclor-1260 [2C]	0.091	0.033	mg/Kg	0.0837		108	40-140			
Surrogate: Decachlorobiphenyl	*0.359*		mg/Kg	0.335		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.353*		mg/Kg	0.335		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.358*		mg/Kg	0.335		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.364*		mg/Kg	0.335		109	30-150			
LCS Dup (B059219-BSD1)				Prepared & Analyzed: 09/20/12						
Aroclor-1016	0.097	0.033	mg/Kg	0.0837		116	40-140	9.61	30	
Aroclor-1016 [2C]	0.097	0.033	mg/Kg	0.0837		116	40-140	3.73	30	
Aroclor-1260	0.097	0.033	mg/Kg	0.0837		116	40-140	4.16	30	
Aroclor-1260 [2C]	0.092	0.033	mg/Kg	0.0837		109	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	*0.368*		mg/Kg	0.335		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.359*		mg/Kg	0.335		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.348*		mg/Kg	0.335		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.371*		mg/Kg	0.335		111	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B058726 - SW-846 3540C										
Blank (B058726-BLK1)				Prepared: 09/13/12 Analyzed: 09/14/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.922*		mg/Kg	1.00		92.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.889*		mg/Kg	1.00		88.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.811*		mg/Kg	1.00		81.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.840*		mg/Kg	1.00		84.0	30-150			
LCS (B058726-BS1)				Prepared: 09/13/12 Analyzed: 09/14/12						
Aroclor-1016	0.23	0.10	mg/Kg	0.250		90.1	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg	0.250		90.8	40-140			
Aroclor-1260	0.22	0.10	mg/Kg	0.250		89.0	40-140			
Aroclor-1260 [2C]	0.23	0.10	mg/Kg	0.250		90.1	40-140			
Surrogate: Decachlorobiphenyl	*0.891*		mg/Kg	1.00		89.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.851*		mg/Kg	1.00		85.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.777*		mg/Kg	1.00		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.802*		mg/Kg	1.00		80.2	30-150			
LCS Dup (B058726-BSD1)				Prepared: 09/13/12 Analyzed: 09/14/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		102	40-140	12.6	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140	10.9	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		99.7	40-140	11.4	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140	13.4	30	
Surrogate: Decachlorobiphenyl	*0.986*		mg/Kg	1.00		98.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.954*		mg/Kg	1.00		95.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.853*		mg/Kg	1.00		85.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.882*		mg/Kg	1.00		88.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B058726 - SW-846 3540C										
Matrix Spike (B058726-MS1)		**Source: 12I0349-36**		Prepared: 09/13/12 Analyzed: 09/14/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250	0.0	101	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250	0.0	102	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250	0.0	98.0	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250	0.0	99.3	40-140			
Surrogate: Decachlorobiphenyl	*0.954*		mg/Kg	1.00		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.906*		mg/Kg	1.00		90.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.876*		mg/Kg	1.00		87.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.916*		mg/Kg	1.00		91.6	30-150			
Matrix Spike Dup (B058726-MSD1)		**Source: 12I0349-36**		Prepared: 09/13/12 Analyzed: 09/14/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250	0.0	98.7	40-140	2.55	50	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250	0.0	102	40-140	0.00391	50	
Aroclor-1260	0.24	0.10	mg/Kg	0.250	0.0	97.5	40-140	0.483	50	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250	0.0	97.3	40-140	2.09	50	
Surrogate: Decachlorobiphenyl	*0.940*		mg/Kg	1.00		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.886*		mg/Kg	1.00		88.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.864*		mg/Kg	1.00		86.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.904*		mg/Kg	1.00		90.4	30-150			
Batch B058823 - SW-846 3540C										
Blank (B058823-BLK1)				Prepared: 09/14/12 Analyzed: 09/17/12						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*4.40*		mg/Kg	4.00		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.12*		mg/Kg	4.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*4.08*		mg/Kg	4.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.73*		mg/Kg	4.00		93.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B058823 - SW-846 3540C										
LCS (B058823-BS1)				Prepared: 09/14/12 Analyzed: 09/17/12						
Aroclor-1016	3.8	0.20	mg/Kg	4.00		94.5	40-140			
Aroclor-1016 [2C]	3.5	0.20	mg/Kg	4.00		86.3	40-140			
Aroclor-1260	4.2	0.20	mg/Kg	4.00		104	40-140			
Aroclor-1260 [2C]	3.3	0.20	mg/Kg	4.00		82.7	40-140			
Surrogate: Decachlorobiphenyl	*4.33*		mg/Kg	4.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.16*		mg/Kg	4.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*4.10*		mg/Kg	4.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.91*		mg/Kg	4.00		97.8	30-150			
LCS Dup (B058823-BSD1)				Prepared: 09/14/12 Analyzed: 09/17/12						
Aroclor-1016	3.7	0.20	mg/Kg	4.00		93.0	40-140	1.58	30	
Aroclor-1016 [2C]	3.5	0.20	mg/Kg	4.00		86.8	40-140	0.505	30	
Aroclor-1260	4.1	0.20	mg/Kg	4.00		103	40-140	0.547	30	
Aroclor-1260 [2C]	3.3	0.20	mg/Kg	4.00		83.6	40-140	1.12	30	
Surrogate: Decachlorobiphenyl	*4.27*		mg/Kg	4.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.17*		mg/Kg	4.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*3.98*		mg/Kg	4.00		99.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.86*		mg/Kg	4.00		96.6	30-150			
Matrix Spike (B058823-MS1)		**Source: 12I0349-15**		Prepared: 09/14/12 Analyzed: 09/17/12						
Aroclor-1016	4.1	0.71	mg/Kg	3.55	0.0	114	40-140			
Aroclor-1016 [2C]	4.2	0.71	mg/Kg	3.55	0.0	118	40-140			
Aroclor-1260	3.2	0.71	mg/Kg	3.55	0.0	89.5	40-140			
Aroclor-1260 [2C]	2.9	0.71	mg/Kg	3.55	0.0	80.5	40-140			
Surrogate: Decachlorobiphenyl	*3.17*		mg/Kg	3.55		89.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.97*		mg/Kg	3.55		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	*3.70*		mg/Kg	3.55		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.63*		mg/Kg	3.55		102	30-150			
Matrix Spike Dup (B058823-MSD1)		**Source: 12I0349-15**		Prepared: 09/14/12 Analyzed: 09/17/12						
Aroclor-1016	4.4	0.74	mg/Kg	3.71	0.0	118	40-140	7.74	50	
Aroclor-1016 [2C]	4.4	0.74	mg/Kg	3.71	0.0	119	40-140	5.38	50	
Aroclor-1260	3.9	0.74	mg/Kg	3.71	0.0	106	40-140	20.9	50	
Aroclor-1260 [2C]	3.5	0.74	mg/Kg	3.71	0.0	93.8	40-140	19.6	50	
Surrogate: Decachlorobiphenyl	*4.19*		mg/Kg	3.71		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.90*		mg/Kg	3.71		105	30-150			
Surrogate: Tetrachloro-m-xylene	*3.96*		mg/Kg	3.71		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.82*		mg/Kg	3.71		103	30-150			
Batch B058942 - SW-846 3540C										
Blank (B058942-BLK1)				Prepared: 09/17/12 Analyzed: 09/19/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B058942 - SW-846 3540C										
Blank (B058942-BLK1)				Prepared: 09/17/12 Analyzed: 09/19/12						
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.885*		mg/Kg	1.00		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.833*		mg/Kg	1.00		83.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.737*		mg/Kg	1.00		73.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.794*		mg/Kg	1.00		79.4	30-150			
LCS (B058942-BS1)				Prepared: 09/17/12 Analyzed: 09/19/12						
Aroclor-1016	0.22	0.10	mg/Kg	0.250		89.2	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg	0.250		92.6	40-140			
Aroclor-1260	0.22	0.10	mg/Kg	0.250		88.4	40-140			
Aroclor-1260 [2C]	0.22	0.10	mg/Kg	0.250		89.1	40-140			
Surrogate: Decachlorobiphenyl	*0.884*		mg/Kg	1.00		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.833*		mg/Kg	1.00		83.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.783*		mg/Kg	1.00		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.841*		mg/Kg	1.00		84.1	30-150			
LCS Dup (B058942-BSD1)				Prepared: 09/17/12 Analyzed: 09/19/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		114	40-140	24.2	30	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140	19.1	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		106	40-140	17.9	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		104	40-140	15.6	30	
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.906*		mg/Kg	1.00		90.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.970*		mg/Kg	1.00		97.0	30-150			
Matrix Spike (B058942-MS2)		**Source: 12I0349-36RE1**		Prepared: 09/17/12 Analyzed: 09/19/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250	0.0	106	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250	0.0	121	40-140			
Aroclor-1260	0.31	0.10	mg/Kg	0.250	0.0	122	40-140			
Aroclor-1260 [2C]	0.32	0.10	mg/Kg	0.250	0.0	129	40-140			
Surrogate: Decachlorobiphenyl	*0.817*		mg/Kg	1.00		81.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.778*		mg/Kg	1.00		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.761*		mg/Kg	1.00		76.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.817*		mg/Kg	1.00		81.7	30-150			
Matrix Spike Dup (B058942-MSD2)		**Source: 12I0349-36RE1**		Prepared: 09/17/12 Analyzed: 09/19/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250	0.0	107	40-140	0.629	50	
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250	0.0	122	40-140	0.771	50	
Aroclor-1260	0.30	0.10	mg/Kg	0.250	0.0	121	40-140	0.984	50	
Aroclor-1260 [2C]	0.31	0.10	mg/Kg	0.250	0.0	126	40-140	2.59	50	
Surrogate: Decachlorobiphenyl	*0.858*		mg/Kg	1.00		85.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.808*		mg/Kg	1.00		80.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.781*		mg/Kg	1.00		78.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.839*		mg/Kg	1.00		83.9	30-150			

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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.
O-04	Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. The higher result was reported.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
P-07	Significant chromatographic interference was observed on only one of the two columns. Per EPA guidance, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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ANALYTICAL LABORATORY

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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	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	1381	12/14/2012

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Rev 04.05.12

12I0349

Company Name: ARCADIS
Address: 194 Forbes Rd
Braintree, MA
Attention: Budd Batchelder
Project Location: CCCC
Sampled By:

Telephone: (781)-356-7300
Project # BN030634.0000
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email:
Format ○ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

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

ANALYSIS REQUESTED: PCBs-SOXHLET Extraction

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	# of Containers (10)	** Preservation (I)	***Container Code (G)
01	Caulk-Brown-4	9/6/12	1000		X	S	U	X		
02	Expansion Joint-1	9/6/12	1210					X		
03	Expansion Joint-2	9/6/12	1220					X		
04	Expansion Joint-3	9/6/12	1230					X		
05	Concrete-7A-0-0.5"	9/6/12	1414					X		
06	Caulk-Yellow-1	9/10/12	0750					X		
07	Caulk-Yellow-2	9/10/12	0750					X		
08	Caulk-Yellow-3	9/10/12	0750					X		
09	Caulk-Brown-5	9/10/12	0800					X		
10	Caulk-Brown-6	9/10/12	0805					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
○ Field Filtered
○ 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: 9/12/12	
Received by: (signature)	Date/Time: 9/12/12	
Relinquished by: (signature)	Date/Time: 9/12/12	
by: (signature) 3.9C	Date/Time: 9/12/12 18:10	

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: USEPA
Connecticut:
Other:

Is your project MCP or RCP?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

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ROUND TIME 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 RECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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12I0349

Company Name: ARCADIS
Address: 194 Forbes Rd
Braintree, MA
Attention: B. BATCHELDER
Project Location: CCCC
Sampled By:

Telephone: (781)-356-7300
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
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O OTHER
O "Enhanced Data Package"

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

ANALYSIS REQUESTED

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	PCBs - SoxHLET Extraction	12	1	G
11	Caulk-Brown-7	9/10/12	0815		X	S	U	X			
12	Caulk-Brown-8	9/10/12	0820					X			
13	Caulk-Brown-9	9/10/12	0825					X			
14	Caulk-Brown-10	9/10/12	0830					X			
15	*Caulk-Brown-11	9/10/12	0840					X			
16	*Caulk-Brown-12	9/10/12	0855					X			
17	Caulk-Brown-13	9/10/12	0920					X			
18	Concrete-TB-0.5-1.0'	9/10/12	0940					X			
19	EB-05	9/10/12	1000			O		X			
20	CMU-4A-0-0.5"	9/10/12	1020			S		X			

Comments: * use as MS/MSD, 3 containers

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

# of Containers
** Preservation
***Container Code

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: 9/12/12	
Received by: (signature)	Date/Time: 9/12/12 10:[illegible]	
Relinquished by: (signature)	Date/Time: 9/12/12 [illegible]	
Received by: (signature) Ben Nelson 3.9C	Date/Time: 9/12/12 18:10	

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
Require lab approval

Detection Limit Requirements
Massachusetts: USEPA
Connecticut:
Other:

Is your project MCP or RCP?
O MCP Form Required
O RCP Form Required
O MA State DW Form Required PWSID # _____

AIHA LAP, LLC ACCREDITED LABORATORY
nelac
NELAC & AIHA-LAP, LLC Accredited
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O yes _____ proposal date

ANALYSIS REQUESTED

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	PCBs - SOX HLET Extraction	# of Containers	** Preservation	***Container Code
21	DUP-05	9/10/12	—		X	S	U	X			
22	DUP-06	9/10/12	—					X			
23	CMU-4B-.5-1"	9/10/12	1035					X			
24	Concrete-8A-0-0.5"	9/10/12	1045					HOLD			
25	Concrete-8B-.5-1.0"	9/10/12	1100					HOLD			
26	Concrete-9A-0-0.5"	9/10/12	1115					X			
27	Concrete-9B-.5-1.0"	9/10/12	1135					X			
28	Concrete-10A-0-.5"	9/10/12	1150					HOLD			
29	Concrete-10B-.5-1.0"	9/10/12	1240					HOLD			
30	EB-06	9/10/12	1245					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: 9/12/12	
Received by: (signature)	Date/Time: 9/12/12 10:35	
Relinquished by: (signature)	Date/Time: 9/12/12 6:10	
Received by: (signature) Ben Moree 3.9C	Date/Time: 9/12/12 18:10	

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
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Detection Limit Requirements
Massachusetts: USEPA
Connecticut:
Other:

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Rev 04.05.12

12 IO 349

Company Name: ARCADIS
Address: 194 Forbes Rd
Braintree, MA
Attention: Budd Batchelder
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O yes _____ proposal date

ANALYSIS REQUESTED

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	# of Containers	** Preservation	***Container Code	PCBs-Soxhlet Extraction
31	Concrete-11A-0-0.5"	9/10/12	1310		x	S	U	1	I	G	X
32	Concrete-11B-.5-1.0"	9/10/12	1330		↓	↓	↓	1	I	G	X
33	Concrete-12A-0-0.5"	9/10/12	1340		↓	↓	↓	1	I	G	H ok
34	Concrete-12B-.5-1.0"	9/10/12	1355		↓	↓	↓	1	I	G	Hold
35	Concrete-13-0-0.5"	9/10/12	1410		↓	↓	↓	1	I	G	X
36	*Concrete-14A-0-0.5"	9/11/12	0815		↓	↓	↓	1	I	G	X
37	Concrete-14B-.5-1.0"	9/11/12	0830		↓	↓	↓	1	I	G	X
38	Concrete-15A-0-0.5"	9/11/12	0845		↓	↓	↓	1	I	G	X
39	Concrete-15B-.5-1.0"	9/11/12	0855		↓	↓	↓	1	I	G	X

Comments: * use as MS/MSD, 3 containers

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

Dissolved Metals
O Field Filtered
O Lab to Filter

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I = Iced
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S = soil/solid
SL= sludge
O = other_____

Relinquished by: (signature)	Date/Time: 9/12/12	
Received by: (signature)	Date/Time: 9/12/12 1035	
Relinquished by: (signature)	Date/Time: 9/12/12	
Received by: (signature) 3.9C	Date/Time: 9/12/12 18:19	

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: USEPA

Is your project MCP or RCP ?
O MCP Form Required
O RCP Form Required
O MA State DW Form Required PWSID # _____

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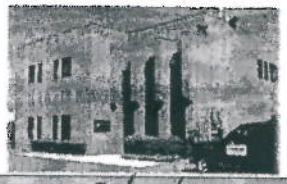

Sample Receipt Checklist

CLIENT NAME: Arcadis **RECEIVED BY:** KKM **DATE:** 9/12/12

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 3.9
5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
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 _____
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	43
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		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 _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

con-test®
ANALYTICAL LABORATORY

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

September 24, 2012

Budd Batchelder
Arcadis US Inc. - Braintree, MA
194 Forbes Road
Braintree, MA 02184

Project Location: CCCC
Client Job Number:
Project Number: BN030631.0000
Laboratory Work Order Number: 12I0666

Enclosed are results of analyses for samples received by the laboratory on September 21, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

con-test®
ANALYTICAL LABORATORY

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

Arcadis US Inc. - Braintree, MA
194 Forbes Road
Braintree, MA 02184
ATTN: Budd Batchelder

REPORT DATE: 9/24/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: BN030631.0000

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12I0666

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

PROJECT LOCATION: CCCC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Concrete-8A-0-0.5in	12I0666-01	Concrete		SW-846 8082A	
Concrete-8B-0.5-1.0in	12I0666-02	Concrete		SW-846 8082A	
Concrete-10A-0-0.5in	12I0666-03	Concrete		SW-846 8082A	
Concrete-10B-0.5-1.0in	12I0666-04	Concrete		SW-846 8082A	
Concrete-12A-0-0.5in	12I0666-05	Concrete		SW-846 8082A	
Concrete-12B-0.5-1.0in	12I0666-06	Concrete		SW-846 8082A	

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ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]
B059324-MS1, B059324-MSD1

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]
12I0666-06[Concrete-12B-0.5-1.0in]

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.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: CCCC | Sample Description: | Work Order: 12I0666

Date Received: 9/21/2012

Field Sample #: Concrete-8A-0-0.5in | Sampled: 9/10/2012 10:45

Sample ID: 12I0666-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/21/12	9/23/12 8:47	JMB
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/21/12	9/23/12 8:47	JMB
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/21/12	9/23/12 8:47	JMB
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/21/12	9/23/12 8:47	JMB
Aroclor-1248 [2]	4.1	0.45	mg/Kg	5		SW-846 8082A	9/21/12	9/23/12 8:47	JMB
Aroclor-1254 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/21/12	9/23/12 8:47	JMB
Aroclor-1260 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/21/12	9/23/12 8:47	JMB
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/21/12	9/23/12 8:47	JMB
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	9/21/12	9/23/12 8:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.5	30-150		9/23/12 8:47
Decachlorobiphenyl [2]	83.1	30-150		9/23/12 8:47
Tetrachloro-m-xylene [1]	82.9	30-150		9/23/12 8:47
Tetrachloro-m-xylene [2]	93.9	30-150		9/23/12 8:47

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

Project Location: CCCC
Date Received: 9/21/2012
Field Sample #: Concrete-8B-0.5-1.0in
Sample ID: 12I0666-02
Sample Matrix: Concrete

Sample Description:
Sampled: 9/10/2012 11:00

Work Order: 12I0666

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 21:57	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 21:57	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 21:57	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 21:57	JMB
Aroclor-1248 [1]	0.21	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 21:57	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 21:57	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 21:57	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 21:57	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 21:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		9/22/12 21:57
Decachlorobiphenyl [2]	87.8	30-150		9/22/12 21:57
Tetrachloro-m-xylene [1]	85.5	30-150		9/22/12 21:57
Tetrachloro-m-xylene [2]	93.5	30-150		9/22/12 21:57

con-test® ANALYTICAL LABORATORY

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

Project Location: CCCC | Sample Description: | Work Order: 12I0666

Date Received: 9/21/2012

Field Sample #: Concrete-10A-0-0.5in | Sampled: 9/10/2012 11:50

Sample ID: 12I0666-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:09	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:09	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:09	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:09	JMB
Aroclor-1248 [2]	0.11	0.091	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:09	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:09	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:09	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:09	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.6	30-150		9/22/12 22:09
Decachlorobiphenyl [2]	76.2	30-150		9/22/12 22:09
Tetrachloro-m-xylene [1]	76.0	30-150		9/22/12 22:09
Tetrachloro-m-xylene [2]	82.4	30-150		9/22/12 22:09

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Project Location: CCCC

Sample Description:

Work Order: 12I0666

Date Received: 9/21/2012

Field Sample #: Concrete-10B-0.5-1.0in

Sampled: 9/10/2012 12:40

Sample ID: 12I0666-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:22	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:22	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:22	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:22	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:22	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:22	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:22	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:22	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/21/12	9/22/12 22:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.7	30-150		9/22/12 22:22
Decachlorobiphenyl [2]	80.0	30-150		9/22/12 22:22
Tetrachloro-m-xylene [1]	79.3	30-150		9/22/12 22:22
Tetrachloro-m-xylene [2]	87.5	30-150		9/22/12 22:22

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

Project Location: CCCC | Sample Description: | Work Order: 12I0666

Date Received: 9/21/2012

Field Sample #: Concrete-12A-0-0.5in | Sampled: 9/10/2012 13:40

Sample ID: 12I0666-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	9/21/12	9/23/12 8:59	JMB
Aroclor-1221 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	9/21/12	9/23/12 8:59	JMB
Aroclor-1232 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	9/21/12	9/23/12 8:59	JMB
Aroclor-1242 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	9/21/12	9/23/12 8:59	JMB
Aroclor-1248 [2]	18	1.7	mg/Kg	20		SW-846 8082A	9/21/12	9/23/12 8:59	JMB
Aroclor-1254 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	9/21/12	9/23/12 8:59	JMB
Aroclor-1260 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	9/21/12	9/23/12 8:59	JMB
Aroclor-1262 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	9/21/12	9/23/12 8:59	JMB
Aroclor-1268 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	9/21/12	9/23/12 8:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.4	30-150		9/23/12 8:59
Decachlorobiphenyl [2]	80.0	30-150		9/23/12 8:59
Tetrachloro-m-xylene [1]	70.9	30-150		9/23/12 8:59
Tetrachloro-m-xylene [2]	82.4	30-150		9/23/12 8:59

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Project Location: CCCC
Sample Description:
Work Order: 12I0666

Date Received: 9/21/2012

Field Sample #: Concrete-12B-0.5-1.0in
Sampled: 9/10/2012 13:55

Sample ID: 12I0666-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	9/21/12	9/23/12 9:12	JMB
Aroclor-1221 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	9/21/12	9/23/12 9:12	JMB
Aroclor-1232 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	9/21/12	9/23/12 9:12	JMB
Aroclor-1242 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	9/21/12	9/23/12 9:12	JMB
Aroclor-1248 [2]	39	4.3	mg/Kg	50		SW-846 8082A	9/21/12	9/23/12 9:12	JMB
Aroclor-1254 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	9/21/12	9/23/12 9:12	JMB
Aroclor-1260 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	9/21/12	9/23/12 9:12	JMB
Aroclor-1262 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	9/21/12	9/23/12 9:12	JMB
Aroclor-1268 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	9/21/12	9/23/12 9:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	9/23/12 9:12
Decachlorobiphenyl [2]	*	30-150	S-01	9/23/12 9:12
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/23/12 9:12
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/23/12 9:12

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12I0666-01 [Concrete-8A-0-0.5in]	B059324	2.20	10.0	09/21/12
12I0666-02 [Concrete-8B-0.5-1.0in]	B059324	2.30	10.0	09/21/12
12I0666-03 [Concrete-10A-0-0.5in]	B059324	2.20	10.0	09/21/12
12I0666-04 [Concrete-10B-0.5-1.0in]	B059324	2.30	10.0	09/21/12
12I0666-05 [Concrete-12A-0-0.5in]	B059324	2.30	10.0	09/21/12
12I0666-06 [Concrete-12B-0.5-1.0in]	B059324	2.30	10.0	09/21/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B059324 - SW-846 3540C										
Blank (B059324-BLK1)				Prepared: 09/21/12 Analyzed: 09/22/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.885*		mg/Kg	1.00		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.810*		mg/Kg	1.00		81.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.889*		mg/Kg	1.00		88.9	30-150			
LCS (B059324-BS1)				Prepared: 09/21/12 Analyzed: 09/22/12						
Aroclor-1016	0.22	0.10	mg/Kg	0.250		88.5	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg	0.250		92.0	40-140			
Aroclor-1260	0.22	0.10	mg/Kg	0.250		89.7	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		106	40-140			
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.847*		mg/Kg	1.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.782*		mg/Kg	1.00		78.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.855*		mg/Kg	1.00		85.5	30-150			
LCS Dup (B059324-BSD1)				Prepared: 09/21/12 Analyzed: 09/22/12						
Aroclor-1016	0.23	0.10	mg/Kg	0.250		93.5	40-140	5.56	30	
Aroclor-1016 [2C]	0.24	0.10	mg/Kg	0.250		94.7	40-140	2.86	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250		90.8	40-140	1.21	30	
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140	2.39	30	
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.847*		mg/Kg	1.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.795*		mg/Kg	1.00		79.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.874*		mg/Kg	1.00		87.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B059324 - SW-846 3540C											
Matrix Spike (B059324-MS1)		**Source: 12I0666-01**		Prepared: 09/21/12 Analyzed: 09/22/12							
Aroclor-1016	0.36	0.10	mg/Kg	0.250	0.0	**145**	*	40-140			MS-21
Aroclor-1016 [2C]	0.39	0.10	mg/Kg	0.250	0.0	**156**	*	40-140			MS-21
Aroclor-1260	1.2	0.10	mg/Kg	0.250	0.0	**463**	*	40-140			MS-21
Aroclor-1260 [2C]	1.4	0.10	mg/Kg	0.250	0.0	**544**	*	40-140			MS-21
Surrogate: Decachlorobiphenyl	*0.921*		mg/Kg	1.00		92.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.804*		mg/Kg	1.00		80.4		30-150			
Surrogate: Tetrachloro-m-xylene	*0.815*		mg/Kg	1.00		81.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.883*		mg/Kg	1.00		88.3		30-150			
Matrix Spike Dup (B059324-MSD1)		**Source: 12I0666-01**		Prepared: 09/21/12 Analyzed: 09/22/12							
Aroclor-1016	0.36	0.10	mg/Kg	0.250	0.0	**143**	*	40-140	1.09	50	MS-21
Aroclor-1016 [2C]	0.38	0.10	mg/Kg	0.250	0.0	**154**	*	40-140	1.46	50	MS-21
Aroclor-1260	1.2	0.10	mg/Kg	0.250	0.0	**471**	*	40-140	1.83	50	MS-21
Aroclor-1260 [2C]	1.4	0.10	mg/Kg	0.250	0.0	**554**	*	40-140	1.86	50	MS-21
Surrogate: Decachlorobiphenyl	*0.947*		mg/Kg	1.00		94.7		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.796*		mg/Kg	1.00		79.6		30-150			
Surrogate: Tetrachloro-m-xylene	*0.799*		mg/Kg	1.00		79.9		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.877*		mg/Kg	1.00		87.7		30-150			

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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.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

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	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	1381	12/14/2012

12I0446

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
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39 Spruce Street
East longmeadow, MA 01028

Rev 04.05.12

Company Name: ARCADIS
Address: 194 Forbes Rd
Braintree, MA
Attention:
Project Location: CCCC
Sampled By:

Telephone: ~~(781) 349-NK~~ (781) 356-7300
Project #
Client PO#

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

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

ANALYSIS REQUESTED

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	PCBs - SOX HLET Extraction											
								10											
								1											
								G											
21	DUP-05	9/10/12	—		X	S	U	X											
22	DUP-06	9/10/12	—					X											
23	CMU-4B-.5-1"	9/10/12	1035					X											
-01 24	Concrete-8A-0-0.5"	9/10/12	1045					HOLD											
-02 25	Concrete-8B-.5-1.0"	9/10/12	1100					HOLD											
26 MK	Concrete-9A-0-0.5"	9/10/12	1115					X											
27	Concrete-9B-.5-1.0"	9/10/12	1135					X											
-03 28	Concrete-10A-0-.5"	9/10/12	1150					HOLD											
-04 29	Concrete-10B-.5-1.0"	9/10/12	1240					HOLD											
30	EB-06	9/10/12	1245			O		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

# of Containers
** Preservation
***Container Code

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: 9/12/12	
Received by: (signature)	Date/Time: 9/12/12 10:35	
Relinquished by: (signature)	Date/Time: 9/12/12	
Received by: (signature) Ben McGee 3.9C	Date/Time: 9/12/12 18:10	

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
Require lab approval

Detection Limit Requirements
Massachusetts: USEPA
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Form Required
O RCP Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME 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 BY OUR CLIENT.

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con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

12I0646

39 Spruce Street
East longmeadow, MA 01028

Rev 04.05.12

Company Name: ARCADIS
Address: 194 Forbes Rd, Braintree, MA
Attention: Budd Batchelder
Project Location: CCCC
Sampled By:

Telephone: (781)-356-7300
Project #: ~~12I0340~~
Client PO#

DATA DELIVERY (check all that apply) ○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email:
Format: ○ PDF ○ EXCEL ○ GIS ○ OTHER ○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes) ○ yes ______ proposal date

# of Containers: 1
** Preservation: I
***Container Code: G

ANALYSIS REQUESTED: PCB's-SOXHLET Extraction

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCB's-SOXHLET Extraction
31	Concrete-11A-0-0.5"	9/10/12	1310		X	S	U	X
32	Concrete-11B-.5-1.0"	9/10/12	1330		↓	↓	↓	X
05 33	Concrete-12A-0-0.5"	9/10/12	1340					Hold
06 34	Concrete-12B-.5-1.0"	9/10/12	1355					Hold
35	Concrete-13-0-0.5"	9/10/12	1410					X
36	*Concrete-14A-0-0.5"	9/11/12	0815					X
37	Concrete-14B-.5-1.0"	9/11/12	0830					X
38	Concrete-15A-0-0.5"	9/11/12	0845					X
39	Concrete-15B-.5-1.0"	9/11/12	0855		↓	↓	↓	X

Comments: * use as MS/MSD, 3 containers

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

	Date/Time
Relinquished by: (signature)	9/12/12
Received by: (signature)	9/12/12 1035
Relinquished by: (signature)	9/12/12
Received by: (signature) 3.9C	9/12/12 18:10

Turnaround ‡‡: ☐ 7-Day ☐ 10-Day ☐ Other ___
RUSH †: ☐ †24-Hr ☐ †48-Hr ☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: USEPA

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # ______

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

Dissolved Metals
○ Field Filtered
○ 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 ______

‡‡ TURNAROUND TIME 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 BY OUR CLIENT.

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Rev 04.05.12

12I0349

Company Name: ARCADIS
Address: 194 Forbes Rd
Braintree, MA
Attention: Budd Batchelder
Project Location: CCCC
Sampled By:

Telephone: (781)-356-7300
Project # BN030634.0000
Client PO#

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

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

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	PCBs-SOXHLET Extraction										# of Containers	** Preservation	***Container Code
																		10	1	G
01	Caulk-Brown-4	9/6/12	1000		X	S	U	X												
02	Expansion Joint-1	9/6/12	1210		↓	↓	↓	X												
03	Expansion Joint-2	9/6/12	1220					X												
04	Expansion Joint-3	9/6/12	1230					X												
05	Concrete-7A-0-0.5"	9/6/12	1414					X												
06	Caulk-Yellow-1	9/10/12	0750					X												
07	Caulk-Yellow-2	9/10/12	0750					X												
08	Caulk-Yellow-3	9/10/12	0750					X												
09	Caulk-Brown-5	9/10/12	0800					X												
10	Caulk-Brown-6	9/10/12	0805		↓	↓	↓	X												

ANALYSIS REQUESTED

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: 9/12/12	
Received by: (signature)	Date/Time: 9/12/12	
Relinquished by: (signature)	Date/Time: 9/12/12	
by: (signature) 3.9C	Date/Time: 9/12/12 18:10	

Turnaround ††
O 7-Day
O 10-Day
X Other 5
RUSH †
O †24-Hr O †48-Hr
O †72-Hr O †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: USEPA
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Form Required
O RCP Form Required
O MA State DW Form Required PWSID # _____

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East longmeadow, MA 01028

Rev 04.05.12

12I0349

Company Name: ARCADIS
Address: 194 Forbes Rd
Braintree, MA
Attention: B. BATCHELDER
Project Location: CCCC
Sampled By:

Telephone: (781)-356-7300
Project #
Client PO#

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

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

ANALYSIS REQUESTED

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	PCBs-SoxHET Extraction	# of Containers	** Preservation	***Container Code
11	Caulk-Brown-7	9/10/12	0815		X	S	U	X			
12	Caulk-Brown-8	9/10/12	0820					X			
13	Caulk-Brown-9	9/10/12	0825					X			
14	Caulk-Brown-10	9/10/12	0830					X			
15	*Caulk-Brown-11	9/10/12	0840					X			
16	*Caulk-Brown-12	9/10/12	0855					X			
17	Caulk-Brown-13	9/10/12	0920					X			
18	Concrete-TB-0.5-1.0'	9/10/12	0940					X			
19	EB-05	9/10/12	1000			O		X			
20	CMU-4A-0-0.5"	9/10/12	1020			S		X			

Comments: * use as MS/MSD, 3 containers

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

***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

Dissolved Metals
O Field Filtered
O Lab to Filter

Relinquished by: (signature)	Date/Time: 9/12/12	
Received by: (signature)	Date/Time: 9/12/12 10:[illegible]	
Relinquished by: (signature)	Date/Time: 9/12 2:10	
Received by: (signature) 3.9C	Date/Time: 9/12/12 18:10	

Turnaround ††
☐ 7-Day
☐ 10-Day
☑ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
Require lab approval

Detection Limit Requirements
Massachusetts: USEPA
Connecticut:
Other:

Is your project MCP or RCP?
O MCP Form Required
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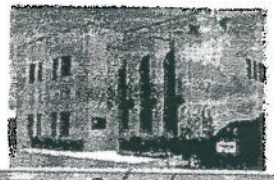
con-test ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Arcadis **RECEIVED BY:** KKM **DATE:** 9/12/12

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 3.9
5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
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 _____
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	43
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		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 _____	# Methanol _____	Time and Date Frozen:
Doc# 277	# Bisulfate _____	# DI Water _____	
Rev. 3 May 2012	# Thiosulfate _____	Unpreserved _____	

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L1300082
Client:	Arcadis U.S., Inc 194 Forbes Road Braintree, MA 02184
ATTN:	Budd Batchelder
Phone:	(781) 356-7300
Project Name:	CCCC
Project Number:	BN030634.0000
Report Date:	01/08/13

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: CCCC
Project Number: BN030634.0000

Lab Number: L1300082
Report Date: 01/08/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1300082-01	CONCRETE-18-0-0.5"	Not Specified	01/02/13 13:00

Project Name: CCCC
Project Number: BN030634.0000

Lab Number: L1300082
Report Date: 01/08/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: CCCC
Project Number: BN030634.0000

Lab Number: L1300082
Report Date: 01/08/13

Case Narrative (continued)

PCBs

L1300082-01 has elevated detection limits due to limited sample volume available for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative

Date: 01/08/13

ORGANICS

PCBS

Project Name: CCCC
Project Number: BN030634.0000

Lab Number: L1300082
Report Date: 01/08/13

SAMPLE RESULTS

Lab ID:	L1300082-01
Client ID:	CONCRETE-18-0-0.5"
Sample Location:	Not Specified
Matrix:	Concrete
Analytical Method:	1,8082A
Analytical Date:	01/08/13 00:41
Analyst:	JW
Percent Solids:	99%

Date Collected:	01/02/13 13:00
Date Received:	01/03/13
Field Prep:	Not Specified
Extraction Method:	EPA 3540C
Extraction Date:	01/04/13 09:40
Cleanup Method1:	EPA 3665A
Cleanup Date1:	01/06/13
Cleanup Method2:	EPA 3660B
Cleanup Date2:	01/06/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	208	--	1
Aroclor 1221	ND		ug/kg	208	--	1
Aroclor 1232	ND		ug/kg	208	--	1
Aroclor 1242	ND		ug/kg	208	--	1
Aroclor 1248	ND		ug/kg	208	--	1
Aroclor 1254	ND		ug/kg	208	--	1
Aroclor 1260	ND		ug/kg	208	--	1
Aroclor 1262	ND		ug/kg	208	--	1
Aroclor 1268	ND		ug/kg	208	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	69		30-150

Project Name: CCCC

Project Number: BN030634.0000

Lab Number: L1300082

Report Date: 01/08/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 01/08/13 00:01
Analyst: JW

Extraction Method: EPA 3540C
Extraction Date: 01/04/13 09:40
Cleanup Method1: EPA 3665A
Cleanup Date1: 01/06/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 01/06/13

Parameter	Result	Qualifier	Units	RL	MDL
PCB by GC - Westborough Lab for sample(s): 01 Batch: WG582720-1					
Aroclor 1016	ND		ug/kg	95.6	--
Aroclor 1221	ND		ug/kg	95.6	--
Aroclor 1232	ND		ug/kg	95.6	--
Aroclor 1242	ND		ug/kg	95.6	--
Aroclor 1248	ND		ug/kg	95.6	--
Aroclor 1254	ND		ug/kg	95.6	--
Aroclor 1260	ND		ug/kg	95.6	--
Aroclor 1262	ND		ug/kg	95.6	--
Aroclor 1268	ND		ug/kg	95.6	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	65		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	69		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: CCCC
Project Number: BN030634.0000

Lab Number: L1300082
Report Date: 01/08/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB by GC - Westborough Lab Associated sample(s): 01 Batch: WG582720-2 WG582720-3								
Aroclor 1016	70		69		40-140	1		50
Aroclor 1260	83		88		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	73		68		30-150
Decachlorobiphenyl	63		67		30-150
2,4,5,6-Tetrachloro-m-xylene	74		69		30-150
Decachlorobiphenyl	67		71		30-150

INORGANICS
&
MISCELLANEOUS

Project Name: CCCC
Project Number: BN030634.0000

Lab Number: L1300082
Report Date: 01/08/13

SAMPLE RESULTS

Lab ID: L1300082-01
Client ID: CONCRETE-18-0-0.5"
Sample Location: Not Specified
Matrix: Concrete

Date Collected: 01/02/13 13:00
Date Received: 01/03/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99		%	0.10	NA	1	-	01/05/13 13:04	30,2540G	TA

Lab Duplicate Analysis
Batch Quality Control

Project Name: CCCC
Project Number: BN030634.0000

Lab Number: L1300082
Report Date: 01/08/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG582924-1 QC Sample: L1300177-01 Client ID: DUP Sample						
Solids, Total	10	10	%	0		20

Project Name: CCCC
Project Number: BN030634.0000

Lab Number: L1300082
Report Date: 01/08/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1300082-01A	Amber 100ml unpreserved	A	N/A	2.9	Y	Absent	TS(7),PCB-8082-3540C(14)

Container Comments

L1300082-01A

*Values in parentheses indicate holding time in days

Project Name: CCCC **Lab Number:** L1300082
Project Number: BN030634.0000 **Report Date:** 01/08/13

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: Data Usability Report

Project Name:	CCCC	**Lab Number:**	L1300082
Project Number:	BN030634.0000	**Report Date:**	01/08/13

Data Qualifiers

due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	CCCC	**Lab Number:**	L1300082
Project Number:	BN030634.0000	**Report Date:**	01/08/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

MANSFIELD CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 1/3/13

ALPHA Job #: L1300082

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Arcadis, U.S.
Address: 194 Forbes Rd
Braintree, MA 02184
Phone: 781-356-7300 x 234
Fax:
Email: bvdd.batchelder@arcadis-us.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: CCCC
Project Location:
Project #: BN030634-0000
Project Manager:
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
USEPA	

Other Project Specific Requirements/Comments/Detection Limits:

PLEASE NOTE
MS/MSD (at unit cost) will be omitted unless you check here: ☐

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: 8082 w/ 50X	Sample Specific Comments	TOTAL # BOTTLES
	Concrete-18-0-0.5"	1/2/13	1300	S	TM	X		

Container Type	G
Preservative	-

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	1/3/12 1220	[signature]	1/3/12 1220
[signature]	1/3/13 17:25	[signature]	1/3/13 17:25

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 101-09 (rev. 27-SEP-10)

Serial_No:01081316:17

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January 10, 2013

Budd Batchelder
Arcadis US Inc. - Braintree, MA
194 Forbes Road
Braintree, MA 02184

Project Location: CCCC
Client Job Number:
Project Number: BN030634.0000
Laboratory Work Order Number: 13A0061

Enclosed are results of analyses for samples received by the laboratory on January 3, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley

Meghan E. Kelley
Project Manager

con-test® ANALYTICAL LABORATORY

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

REPORT DATE: 1/10/2013

Arcadis US Inc. - Braintree, MA
194 Forbes Road
Braintree, MA 02184
ATTN: Budd Batchelder

PURCHASE ORDER NUMBER:

PROJECT NUMBER: BN030634.0000

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0061

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

PROJECT LOCATION: CCCC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Concrete-16-0 0.5in	13A0061-01	Concrete		SW-846 8082A	
EB-01	13A0061-02	Hexane		SW-846 8082A	
Concrete-18-0 0.5in	13A0061-04	Concrete		SW-846 8082A	
Dup-01	13A0061-06	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

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.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: CCCC
Sample Description:
Work Order: 13A0061

Date Received: 1/3/2013

Field Sample #: Concrete-16-0 0.5in
Sampled: 1/2/2013 12:00

Sample ID: 13A0061-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 12:52	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 12:52	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 12:52	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 12:52	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 12:52	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 12:52	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 12:52	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 12:52	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 12:52	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	87.2	30-150		1/9/13 12:52
Decachlorobiphenyl [2]	85.3	30-150		1/9/13 12:52
Tetrachloro-m-xylene [1]	98.7	30-150		1/9/13 12:52
Tetrachloro-m-xylene [2]	96.4	30-150		1/9/13 12:52

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Project Location: CCCC
Sample Description:
Work Order: 13A0061

Date Received: 1/3/2013

Field Sample #: EB-01
Sampled: 1/2/2013 12:20

Sample ID: 13A0061-02

Sample Matrix: Hexane

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.033	mg/Kg	1		SW-846 8082A	1/7/13	1/8/13 10:46	JMB
Aroclor-1221 [1]	ND	0.033	mg/Kg	1		SW-846 8082A	1/7/13	1/8/13 10:46	JMB
Aroclor-1232 [1]	ND	0.033	mg/Kg	1		SW-846 8082A	1/7/13	1/8/13 10:46	JMB
Aroclor-1242 [1]	ND	0.033	mg/Kg	1		SW-846 8082A	1/7/13	1/8/13 10:46	JMB
Aroclor-1248 [1]	ND	0.033	mg/Kg	1		SW-846 8082A	1/7/13	1/8/13 10:46	JMB
Aroclor-1254 [1]	ND	0.033	mg/Kg	1		SW-846 8082A	1/7/13	1/8/13 10:46	JMB
Aroclor-1260 [1]	ND	0.033	mg/Kg	1		SW-846 8082A	1/7/13	1/8/13 10:46	JMB
Aroclor-1262 [1]	ND	0.033	mg/Kg	1		SW-846 8082A	1/7/13	1/8/13 10:46	JMB
Aroclor-1268 [1]	ND	0.033	mg/Kg	1		SW-846 8082A	1/7/13	1/8/13 10:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.2	30-150		1/8/13 10:46
Decachlorobiphenyl [2]	102	30-150		1/8/13 10:46
Tetrachloro-m-xylene [1]	85.0	30-150		1/8/13 10:46
Tetrachloro-m-xylene [2]	90.5	30-150		1/8/13 10:46

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Project Location: CCCC
Sample Description:
Work Order: 13A0061

Date Received: 1/3/2013

Field Sample #: Concrete-18-0 0.5in
Sampled: 1/2/2013 13:00

Sample ID: 13A0061-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:05	MJC
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:05	MJC
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:05	MJC
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:05	MJC
Aroclor-1248 [2]	0.17	0.093	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:05	MJC
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:05	MJC
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:05	MJC
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:05	MJC
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:05	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	86.7	30-150		1/9/13 13:05
Decachlorobiphenyl [2]	84.2	30-150		1/9/13 13:05
Tetrachloro-m-xylene [1]	99.2	30-150		1/9/13 13:05
Tetrachloro-m-xylene [2]	97.4	30-150		1/9/13 13:05

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Project Location: CCCC
Date Received: 1/3/2013
Field Sample #: Dup-01
Sample ID: 13A0061-06
Sample Matrix: Concrete

Sample Description:

Sampled: 1/2/2013 00:00

Work Order: 13A0061

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:17	MJC
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:17	MJC
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:17	MJC
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:17	MJC
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:17	MJC
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:17	MJC
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:17	MJC
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:17	MJC
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	1/7/13	1/9/13 13:17	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.0	30-150		1/9/13 13:17
Decachlorobiphenyl [2]	88.8	30-150		1/9/13 13:17
Tetrachloro-m-xylene [1]	100	30-150		1/9/13 13:17
Tetrachloro-m-xylene [2]	97.9	30-150		1/9/13 13:17

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Sample Extraction Data

Prep Method: SW-846 3580A-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0061-02 [EB-01]	B065757	5.98	10.0	01/07/13

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0061-01RE1 [Concrete-16-0 0.5in]	B065773	2.11	10.0	01/07/13
13A0061-04RE1 [Concrete-18-0 0.5in]	B065773	2.15	10.0	01/07/13
13A0061-06RE1 [Dup-01]	B065773	2.08	10.0	01/07/13

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065757 - SW-846 3580A										
Blank (B065757-BLK1)				Prepared: 01/07/13 Analyzed: 01/08/13						
Aroclor-1016	ND	0.033	mg/Kg							
Aroclor-1016 [2C]	ND	0.033	mg/Kg							
Aroclor-1221	ND	0.033	mg/Kg							
Aroclor-1221 [2C]	ND	0.033	mg/Kg							
Aroclor-1232	ND	0.033	mg/Kg							
Aroclor-1232 [2C]	ND	0.033	mg/Kg							
Aroclor-1242	ND	0.033	mg/Kg							
Aroclor-1242 [2C]	ND	0.033	mg/Kg							
Aroclor-1248	ND	0.033	mg/Kg							
Aroclor-1248 [2C]	ND	0.033	mg/Kg							
Aroclor-1254	ND	0.033	mg/Kg							
Aroclor-1254 [2C]	ND	0.033	mg/Kg							
Aroclor-1260	ND	0.033	mg/Kg							
Aroclor-1260 [2C]	ND	0.033	mg/Kg							
Aroclor-1262	ND	0.033	mg/Kg							
Aroclor-1262 [2C]	ND	0.033	mg/Kg							
Aroclor-1268	ND	0.033	mg/Kg							
Aroclor-1268 [2C]	ND	0.033	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.317*		mg/Kg	0.335		94.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.335*		mg/Kg	0.335		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.273*		mg/Kg	0.335		81.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.295*		mg/Kg	0.335		88.1	30-150			
LCS (B065757-BS1)				Prepared: 01/07/13 Analyzed: 01/08/13						
Aroclor-1016	0.10	0.033	mg/Kg	0.0837		122	40-140			
Aroclor-1016 [2C]	0.098	0.033	mg/Kg	0.0837		118	40-140			
Aroclor-1260	0.10	0.033	mg/Kg	0.0837		125	40-140			
Aroclor-1260 [2C]	0.10	0.033	mg/Kg	0.0837		122	40-140			
Surrogate: Decachlorobiphenyl	*0.375*		mg/Kg	0.335		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.402*		mg/Kg	0.335		120	30-150			
Surrogate: Tetrachloro-m-xylene	*0.326*		mg/Kg	0.335		97.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.350*		mg/Kg	0.335		105	30-150			
LCS Dup (B065757-BSD1)				Prepared: 01/07/13 Analyzed: 01/08/13						
Aroclor-1016	0.10	0.033	mg/Kg	0.0837		124	40-140	2.20	30	
Aroclor-1016 [2C]	0.10	0.033	mg/Kg	0.0837		120	40-140	2.07	30	
Aroclor-1260	0.11	0.033	mg/Kg	0.0837		126	40-140	0.973	30	
Aroclor-1260 [2C]	0.10	0.033	mg/Kg	0.0837		122	40-140	0.528	30	
Surrogate: Decachlorobiphenyl	*0.369*		mg/Kg	0.335		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.394*		mg/Kg	0.335		118	30-150			
Surrogate: Tetrachloro-m-xylene	*0.330*		mg/Kg	0.335		98.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.354*		mg/Kg	0.335		106	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065773 - SW-846 3540C										
Blank (B065773-BLK1)				Prepared: 01/07/13 Analyzed: 01/09/13						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.902*		mg/Kg	1.00		90.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.885*		mg/Kg	1.00		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101	30-150			
LCS (B065773-BS1)				Prepared: 01/07/13 Analyzed: 01/09/13						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		106	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250		97.6	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		98.0	40-140			
Surrogate: Decachlorobiphenyl	*0.894*		mg/Kg	1.00		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.866*		mg/Kg	1.00		86.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.00*		mg/Kg	1.00		100	30-150			
LCS Dup (B065773-BSD1)				Prepared: 01/07/13 Analyzed: 01/09/13						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		110	40-140	5.58	30	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140	5.07	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140	6.00	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140	5.34	30	
Surrogate: Decachlorobiphenyl	*0.920*		mg/Kg	1.00		92.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.888*		mg/Kg	1.00		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.957*		mg/Kg	1.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.949*		mg/Kg	1.00		94.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065773 - SW-846 3540C										
Matrix Spike (B065773-MS1)		**Source: 13A0061-01RE1**		Prepared: 01/07/13 Analyzed: 01/09/13						
Aroclor-1016	0.24	0.097	mg/Kg	0.243	0.0	97.1	40-140			
Aroclor-1016 [2C]	0.22	0.097	mg/Kg	0.243	0.0	91.1	40-140			
Aroclor-1260	0.21	0.097	mg/Kg	0.243	0.0	87.4	40-140			
Aroclor-1260 [2C]	0.20	0.097	mg/Kg	0.243	0.0	81.2	40-140			
Surrogate: Decachlorobiphenyl	*0.799*		mg/Kg	0.971		82.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.779*		mg/Kg	0.971		80.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.924*		mg/Kg	0.971		95.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.908*		mg/Kg	0.971		93.5	30-150			
Matrix Spike Dup (B065773-MSD1)		**Source: 13A0061-01RE1**		Prepared: 01/07/13 Analyzed: 01/09/13						
Aroclor-1016	0.26	0.098	mg/Kg	0.245	0.0	104	40-140	8.01	50	
Aroclor-1016 [2C]	0.23	0.098	mg/Kg	0.245	0.0	95.2	40-140	5.43	50	
Aroclor-1260	0.23	0.098	mg/Kg	0.245	0.0	92.2	40-140	6.37	50	
Aroclor-1260 [2C]	0.21	0.098	mg/Kg	0.245	0.0	84.5	40-140	4.92	50	
Surrogate: Decachlorobiphenyl	*0.851*		mg/Kg	0.980		86.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.832*		mg/Kg	0.980		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.977*		mg/Kg	0.980		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.955*		mg/Kg	0.980		97.4	30-150			

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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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	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
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	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

CHAIN OF CUSTODY RECORD

13A0061

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Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Company Name: Arcadis, U.S.
Address: 194 Forbes Rd
Braintree, MA 02184
Attention: Budd Batchelder
Project Location: Cape Cod Community College
Sampled By: T. Martin

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

Telephone: 781-356-7300 x234
Project # BNO30634-0000
Client PO#

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email: budd.batchelder@arcadis-us.com
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER ________
O "Enhanced Data Package"

							# of Containers	1
							** Preservation	-
							***Container Code	G
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	ANALYSIS REQUESTED: 8082 with SOX
01	☆ Concrete-16-0-0.5"	1/2/13	1210		X	S	U	X
02	EB-01	1/2/13	1220		X	↓	↓	X
03	Concrete-17-0-0.5"	1/2/13	1230		X	↓	↓	Hold
04	Concrete-18-0-0.5"	1/2/13	1300		X	↓	↓	X
05	Concrete-19-0-0.5"	1/2/13	1330		X	↓	↓	Hold
06	DUP-01	1/2/13	-		X	↓	↓	X

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 ________

Comments:
☆ = use as MS/MSD, 3 containers

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

Signature	Date/Time
Relinquished by: (signature) [signature]	1/3/12 1100
Received by: (signature) [signature]	1-3-13 1100
Relinquished by: (signature) [signature]	1-3-13 1800
Received by: (signature) [signature]	1-3-13 [illegible]

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: USEPA

Is your project MCP or RCP ?
O MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # ________

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

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East Longmeadow, MA. 01028
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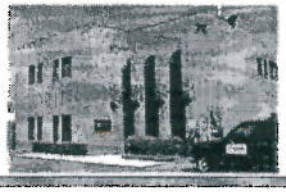

Sample Receipt Checklist

CLIENT NAME: AR Cadig **RECEIVED BY:** WF **DATE:** 1-3-13

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 [X] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [X]

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 5.6

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

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

Who was notified _____ Date _____ Time _____

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 _____

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	8
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		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 _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved

Time and Date Frozen:

Doc# 277
Rev. 3 May 2012