MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909O
TEL: (517) 335-9800O
FAX: (517) 335-9600O

02 July 2014O

Work Order: 1406174O

Price: $4,458.00O

Jeff PincumbeO
MDEQ-RRD-LANSINGO
525 W. Allegan StreetO
Lansing, MI 48909O

RE: ABANDONED MINING WASTE-TORCH LAKE PCBO

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods O approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.O

Sincerely, O

George KrisztianO
Laboratory DirectorO

STATE OF MICHIGAN
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MDEQ-RRD-LANSINGb
525 W. Allegan Streetb
Lansing MI, 48909b

Project:bABANDONED MINING WASTE-TORCH LAKE PCBb
Site Code:b31000098b
Project Manager:bJeff Pincumbeb

Reported:p
07/02/2014

Analytical Report for Samplesp

Sample IDp	Laboratory IDp	Matrixp	Date Sampledp	Date Receivedp	Qualifierp
CHLL-GW 20 10'-15'b	1406174-01b	Waterb	06/11/2014b	06/13/2014b	
CHLL-GW 21 10'-15'b	1406174-02b	Waterb	06/11/2014b	06/13/2014b	
CHLL-GW 22 12'-17'b	1406174-03b	Waterb	06/11/2014b	06/13/2014b	
CHLL-GW 23 10-15'b	1406174-04b	Waterb	06/11/2014b	06/13/2014b	
CHLL-GW 24 10-15'b	1406174-05b	Waterb	06/11/2014b	06/13/2014b	
CHLL-GW 37 9'-14b	1406174-06	Waterb	06/11/2014b	06/13/2014b	
CHLL-GW 19 10-15'b	1406174-07b	Waterb	06/11/2014b	06/13/2014b	
CHLL-GW 18 10-15'b	1406174-08b	Waterb	06/11/2014b	06/13/2014b	
CHLL-GW 25 9'-14'b	1406174-09b	Waterb	06/12/2014b	06/13/2014b	
CHLL-GW 26 9'-14'b	1406174-10b	Waterb	06/12/2014b	06/13/2014b	
CHLL-PCI MW 108Ab	1406174-11b	Waterb	06/11/2014b	06/13/2014b	
CHLL-PCI MW 108Bb	1406174-12b	Waterb	06/11/2014b	06/13/2014b	
CHLL-PCI MW 113b	1406174-13b	Waterb	06/11/2014b	06/13/2014b	
CHLL-PCI MW 118b	1406174-14b	Waterb	06/11/2014b	06/13/2014b	
CHLL-PCI MW 120b	1406174-15b	Waterb	06/11/2014b	06/13/2014b	
CHLL-PCI MW 113 DUPb	1406174-16	Waterb	06/11/2014b	06/13/2014b	

Notes and Definitions p

Y21b	Reporting Limits (RL) raised due to matrix interference.b
Y17b	Probable petroleum product(s) present.b
Tb	Reported value is less than the reporting limit (RL). Result is estimated.b
JAb	Result is estimated due to multiple Aroclors present.b
A01b	Result(s) and reporting limit(s) are estimated due to low surrogate recovery.b
NDb	Indicates compound analyzed for but not detectedb
RLb	Reporting Limitb
NAb	Not Applicableb

Lab Work Order # 1406174b

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Client ID: CHLL-GW 20 10'-15'p

Lab ID: 1406174-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
83-32-9b	Acenaphtheneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
208-96-8b	Acenaphthyleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
120-12-7b	Anthraceneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
207-08-9b	Benzo[k]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
218-01-9b	Chryseneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
206-44-0b	Fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
86-73-7b	Fluoreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
91-20-3b	Naphthaleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
85-01-8b	Phenanthreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
129-00-0b	Pyreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
Surrogate: 2-Fluorobiphenyl.			*61.2 %.*	*24.1-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: Nitrobenzene-d5.			*48.0 %.*	*17.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: p-Terphenyl-d14.			*73.2 %.*	*41.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*53.0 %.*	*30-150.*		*06/21/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*55.3 %.*	*30-150.*		*06/21/14.*	B4F1701b	*8081/8082.*	

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Lab ID: 1406174-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**1900p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-36-0b	**Antimonyp**	**2.3p**	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-38-2b	**Arsenicp**	**85p**	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-39-3b	**Bariump**	**75p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-47-3b	**Chromiump**	**3.5p**	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-50-8b	**Cop erp**	**18p**	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7439-89-6	**Ironp**	**850p**	20b	ug/Lb	1b	06/25/14b	B4F1603b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7439-96-5b	**Manganesep**	**13p**	5.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2307b	7470/245.1b	
7440-02-0b	**Nickelp**	**5.7p**	2.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7782-49-2b	**Seleniump**	**2.0p**	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-66-6	**Zincp**	**24p**	5.0b	ug/Lb	1b	06/30/14b	B4F1603b	6020/200.8b	

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Client ID: CHLL-GW 21 10'-15'p

Lab ID: 1406174-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
83-32-9b	Acenaphtheneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
208-96-8b	Acenaphthyleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
120-12-7b	Anthraceneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
207-08-9b	Benzo[k]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
218-01-9b	Chryseneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
206-44-0b	Fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
86-73-7b	Fluoreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
91-20-3b	Naphthaleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
85-01-8b	Phenanthreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
129-00-0b	Pyreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
Surrogate: 2-Fluorobiphenyl.			*61.0 %.*	*24.1-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: Nitrobenzene-d5.			*48.1 %.*	*17.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: p-Terphenyl-d14.			*71.2 %.*	*41.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*35.1 %.*	*30-150.*		*06/21/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*48.4 %.*	*30-150.*		*06/21/14.*	B4F1701b	*8081/8082.*	

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Client ID: CHLL-GW 21 10'-15'p

Lab ID: 1406174-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**600p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-38-2b	**Arsenicp**	**18p**	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-39-3b	**Bariump**	**33p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-47-3b	**Chromiump**	**4.7p**	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-50-8b	**Cop erp**	**130p**	10b	ug/Lb	10b	06/30/14b	B4F1603b	6020/200.8b	
7439-89-6	**Ironp**	**330p**	20b	ug/Lb	1b	06/25/14b	B4F1603b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7439-96-5b	**Manganesep**	**29p**	5.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2307b	7470/245.1b	
7440-02-0b	**Nickelp**	**5.0p**	2.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-66-6	**Zincp**	**140p**	50b	ug/Lb	10b	06/30/14b	B4F1603b	6020/200.8b	

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Client ID: CHLL-GW 22 12'-17'p

Lab ID: 1406174-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
83-32-9b	Acenaphtheneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
208-96-8b	Acenaphthyleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
120-12-7b	Anthraceneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
207-08-9b	Benzo[k]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
218-01-9b	Chryseneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
206-44-0b	Fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
86-73-7b	Fluoreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
91-20-3b	Naphthaleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
85-01-8b	Phenanthreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
129-00-0b	Pyreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
Surrogate: 2-Fluorobiphenyl.			*43.8 %.*	*24.1-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: Nitrobenzene-d5.			*35.9 %.*	*17.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: p-Terphenyl-d14.			*72.3 %.*	*41.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/21/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*50.9 %.*	*30-150.*		*06/21/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*57.1 %.*	*30-150.*		*06/21/14.*	B4F1701b	*8081/8082.*	

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P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-GW 22 12'-17'p

Lab ID: 1406174-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**230p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-38-2b	**Arsenicp**	**220p**	10b	ug/Lb	10b	06/30/14b	B4F1603b	6020/200.8b	
7440-39-3b	**Bariump**	**280p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-47-3b	Chromiumb	NDb	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-50-8b	**Cop erp**	**13p**	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	20b	ug/Lb	1b	06/25/14b	B4F1603b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7439-96-5b	**Manganesep**	**490p**	5.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2307b	7470/245.1b	
7440-02-0b	**Nickelp**	**4.4p**	2.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-66-6	Zincb	NDb	5.0b	ug/Lb	1b	06/30/14b	B4F1603b	6020/200.8b	

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Client ID: CHLL-GW 23 10-15'p

Lab ID: 1406174-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y17p**
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
83-32-9b	Acenaphtheneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
208-96-8b	Acenaphthyleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
120-12-7b	Anthraceneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
207-08-9b	Benzo[k]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
218-01-9b	Chryseneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
206-44-0b	Fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
86-73-7b	Fluoreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
91-20-3b	Naphthaleneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
85-01-8b	Phenanthreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
129-00-0b	Pyreneb	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
Surrogate: 2-Fluorobiphenyl.			*70.3 %.*	*24.1-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: Nitrobenzene-d5.			*56.0 %.*	*17.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: p-Terphenyl-d14.			*59.9 %.*	*41.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Organics-PCBs as Aroclorsp									**See note A01p**
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11097-69-1b	**Aroclor 1254p**	**0.62p**	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	JAb
11096-82-5b	**Aroclor 1260p**	**0.11p**	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	JAb
37324-23-5b	Aroclor 1262b	NDb	0.11b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	Y21b
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*19.3 %.*	*30-150.*		*06/26/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*25.2 %.*	*30-150.*		*06/26/14.*	B4F1701b	*8081/8082.*	

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Client ID: CHLL-GW 24 10-15'p

Lab ID: 1406174-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y17p**
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/17/14b	B4F1612b	8270b	
Surrogate: 2-Fluorobiphenyl.			*66.1 %.*	*24.1-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: Nitrobenzene-d5.			*68.4 %.*	*17.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Surrogate: p-Terphenyl-d14.			*60.2 %.*	*41.8-115.*		*06/17/14.*	B4F1612b	*8270.*	
Organics-PCBs as Aroclorsp									**See note A01p**
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*26.8 %.*	*30-150.*		*06/26/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*26.1 %.*	*30-150.*		*06/26/14.*	B4F1701b	*8081/8082.*	

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Lansing, MI 48909
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Client ID: CHLL-GW 37 9'-14p

Lab ID: 1406174-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthaleneb	NDb	5.1b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
83-32-9b	Acenaphtheneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
208-96-8b	Acenaphthyleneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
120-12-7b	Anthraceneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
207-08-9b	Benzo[k]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
218-01-9b	Chryseneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	2.1b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
206-44-0b	Fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
86-73-7b	Fluoreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	2.1b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
91-20-3b	Naphthaleneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
85-01-8b	Phenanthreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
129-00-0b	Pyreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
Surrogate: 2-Fluorobiphenyl.			*45.7 %.*	*24.1-115.*		*06/19/14.*	B4F1612b	*8270.*	
Surrogate: Nitrobenzene-d5.			*45.5 %.*	*17.8-115.*		*06/19/14.*	B4F1612b	*8270.*	
Surrogate: p-Terphenyl-d14.			*67.1 %.*	*41.8-115.*		*06/19/14.*	B4F1612b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*58.1 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*58.3 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	

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Client ID: CHLL-GW 37 9'-14p

Lab ID: 1406174-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**430p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-38-2b	Arsenicb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-39-3b	**Bariump**	**84p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-47-3b	**Chromiump**	**1.4p**	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-50-8b	**Cop erp**	**59p**	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7439-89-6	**Ironp**	**880p**	20b	ug/Lb	1b	06/25/14b	B4F1603b	6010/200.7b	
7439-92-1b	**Leadp**	**7.9p**	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7439-96-5b	**Manganesep**	**17p**	5.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2307b	7470/245.1b	
7440-02-0b	**Nickelp**	**5.2p**	2.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-66-6	**Zincp**	**72p**	5.0b	ug/Lb	1b	06/30/14b	B4F1603b	6020/200.8b	

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 19 10-15'p

Lab ID: 1406174-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*54.0 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*52.0 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**1300p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-38-2b	**Arsenicp**	**12p**	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-39-3b	**Bariump**	**22p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.2p**	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-47-3b	**Chromiump**	**14p**	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-50-8b	**Cop erp**	**440p**	10b	ug/Lb	10b	06/30/14b	B4F1603b	6020/200.8b	
7439-89-6	**Ironp**	**27000p**	200b	ug/Lb	10b	06/25/14b	B4F1603b	6010/200.7b	
7439-92-1b	**Leadp**	**7.9p**	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7439-96-5b	**Manganesep**	**230p**	5.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2307b	7470/245.1b	
7440-02-0b	**Nickelp**	**21p**	2.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-22-4b	**Silverp**	**3.0p**	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-66-6	**Zincp**	**60p**	5.0b	ug/Lb	1b	06/30/14b	B4F1603b	6020/200.8b	

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-GW 18 10-15'p

Lab ID: 1406174-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthaleneb	NDb	5.1b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
83-32-9b	Acenaphtheneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
208-96-8b	Acenaphthyleneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
120-12-7b	Anthraceneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
207-08-9b	Benzo[k]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
218-01-9b	Chryseneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
206-44-0b	Fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
86-73-7b	Fluoreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
91-20-3b	Naphthaleneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
85-01-8b	Phenanthreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
129-00-0b	Pyreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
Surrogate: 2-Fluorobiphenyl.			*55.4 %.*	*24.1-115.*		*06/19/14.*	B4F1612b	*8270.*	
Surrogate: Nitrobenzene-d5.			*52.1 %.*	*17.8-115.*		*06/19/14.*	B4F1612b	*8270.*	
Surrogate: p-Terphenyl-d14.			*62.9 %.*	*41.8-115.*		*06/19/14.*	B4F1612b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*58.2 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*52.2 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	

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Client ID: CHLL-GW 18 10-15'p

Lab ID: 1406174-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6000p**	50b	ug/Lb	10b	06/30/14b	B4F1603b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.9p**	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-39-3b	**Bariump**	**89p**	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-47-3b	**Chromiump**	**18p**	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-50-8b	**Cop erp**	**180p**	10b	ug/Lb	10b	06/30/14b	B4F1603b	6020/200.8b	
7439-89-6	**Ironp**	**5700p**	20b	ug/Lb	1b	06/25/14b	B4F1603b	6010/200.7b	
7439-92-1b	**Leadp**	**34p**	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7439-96-5b	**Manganesep**	**47p**	5.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2307b	7470/245.1b	
7440-02-0b	**Nickelp**	**12p**	2.0b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	06/27/14b	B4F1603b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	06/26/14b	B4F1603b	6020/200.8b	
7440-66-6	**Zincp**	**31p**	5.0b	ug/Lb	1b	06/30/14b	B4F1603b	6020/200.8b	

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Client ID: CHLL-GW 25 9'-14'p

Lab ID: 1406174-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*46.5 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*47.8 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	

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Client ID: CHLL-GW 26 9'-14'p

Lab ID: 1406174-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.1b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
Surrogate: 2-Fluorobiphenyl.			*42.8 %.*	*24.1-115.*		*06/19/14.*	B4F1612b	*8270.*	
Surrogate: Nitrobenzene-d5.			*46.8 %.*	*17.8-115.*		*06/19/14.*	B4F1612b	*8270.*	
Surrogate: p-Terphenyl-d14.			*58.9 %.*	*41.8-115.*		*06/19/14.*	B4F1612b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*74.6 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*58.0 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	

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ENVIRONMENTAL LABORATORYC

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Client ID: CHLL-PCI MW 108Ap

Lab ID: 1406174-11p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11097-69-1b	**Aroclor 1254**	**0.051p**	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	Tb
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*38.4 %.*	*30-150.*		*06/26/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*40.6 %.*	*30-150.*		*06/26/14.*	B4F1701b	*8081/8082.*	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-PCI MW 108Bp

Lab ID: 1406174-12p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*57.8 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*60.4 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	

STATE OF MICHIGAN
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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-PCI MW 113p

Lab ID: 1406174-13p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*76.3 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*55.7 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-PCI MW 118p

Lab ID: 1406174-14p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*90.2 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*61.7 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-PCI MW 120p

Lab ID: 1406174-15p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
83-32-9b	Acenaphtheneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
208-96-8b	Acenaphthyleneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
120-12-7b	Anthraceneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
207-08-9b	Benzo[k]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
218-01-9b	Chryseneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
206-44-0b	Fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
86-73-7b	Fluoreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
91-20-3b	Naphthaleneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
85-01-8b	Phenanthreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
129-00-0b	Pyreneb	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F1612b	8270b	
Surrogate: 2-Fluorobiphenyl.			*54.7 %.*	*24.1-115.*		*06/19/14.*	B4F1612b	*8270.*	
Surrogate: Nitrobenzene-d5.			*55.4 %.*	*17.8-115.*		*06/19/14.*	B4F1612b	*8270.*	
Surrogate: p-Terphenyl-d14.			*60.3 %.*	*41.8-115.*		*06/19/14.*	B4F1612b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*85.3 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*73.9 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-PCI MW 113 DUPp

Lab ID: 1406174-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/22/14b	B4F1701b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*92.2 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*68.4 %.*	*30-150.*		*06/22/14.*	B4F1701b	*8081/8082.*	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406174	Abandoned Mining Waste- Torch Lake PCB	WATER

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Keranenia@michigan.gov		Contract Firm: Weston Solutions
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: No	Contract Firm Primary Contact: Jeff Binkley
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-GW 20 10'-15'	6-11-14	9:15		
2	02	CHLL-GW 21 10'-15'	6-11-14	9:55		
3	03	CHLL-GW 22 ~~15'-15'~~ 12'-17'	6-11-14	10:45		
4	04	CHLL-GW 23 10-15'	6-11-14	11:30		
5	05	CHLL-GW 24 10'-15'	6-11-14	12:10		
6	06	CHLL-GW 37 9'-14'	6-11-14	4:30p		
7	07	CHLL-GW 19 10-15'	6-11-14	5:10		
8	08	CHLL-GW 18 10-15	6-11-14	5:45		
9	09	CHLL-GW 25 9'-14'	6-12-14	9:15a		
10	10	CHLL-GW 26 9'-14'	6-12-14	9:45		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic	
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10
METH - Methane, Ethane, Ethene	
Methane, Ethane, Ethene	1 2 3 4 5 6 7 8 9 10
ON - Pesticides, PCBs	
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10
Specialty Pesticides	1 2 3 4 5 6 7 8 9 10
BNA - Base Neutral Acids	
BNAs	1 2 3 4 5 6 7 8 9 10
Benzidines	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10
Acids only	1 2 3 4 5 6 7 8 9 10
Organic Specialty Requests	
Library search-Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search-SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total	1 2 3 4 5 6 7 8 9 10
OpMemo2 - Dissolved	1 2 3 4 5 6 7 8 9 10
(Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	
Michigan10 - Total	1 2 3 4 5 6 7 8 9 10
Michigan10 - Dissolved	1 2 3 4 5 6 7 8 9 10
(As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	

MAD - DISSOLVED METALS

Diss - Silver - Ag	1 2 3 4 5 6 7 8 9 10
Diss - Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Diss - Arsenic - As	1 2 3 4 5 6 7 8 9 10
Diss - Boron - B	1 2 3 4 5 6 7 8 9 10
Diss - Barium - Ba	1 2 3 4 5 6 7 8 9 10
Diss - Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Diss - Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Diss - Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Diss - Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Diss - Copper - Cu	1 2 3 4 5 6 7 8 9 10
Diss - Iron - Fe	1 2 3 4 5 6 7 8 9 10
Diss - Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Diss - Lithium - Li	1 2 3 4 5 6 7 8 9 10
Diss - Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Diss - Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Diss - Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Diss - Lead - Pb	1 2 3 4 5 6 7 8 9 10
Diss - Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Diss - Selenium - Se	1 2 3 4 5 6 7 8 9 10
Diss - Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Diss - Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Diss - Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Diss - Vanadium - V	1 2 3 4 5 6 7 8 9 10
Diss - Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Diss - Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Diss - Potassium - K	1 2 3 4 5 6 7 8 9 10
Diss - Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Diss - Sodium - Na	1 2 3 4 5 6 7 8 9 10
Diss - Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10
MD - Metals Dissolved	
Lab Filtration	1 2 3 4 5 6 7 8 9 10

MA - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Boron - B	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10
Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10
LHG - Low Level Mercury	
Mercury Low Level - Hg	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GB - General Basic	
Total Cyanide - CN	[redacted] 10
Amenable Cyanide - CN	1 2 3 4 5 6 7 8 9 10
GCN - General Cyanide	
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
CA - Chlorophyll	
Chlorophyll	1 2 3 4 5 6 7 8 9 10
GN - General Chemistry Neutral	
Ortho Phosphate - OP	1 2 3 4 5 6 7 8 9 10
Nitrite - NO_2	1 2 3 4 5 6 7 8 9 10
Nitrate - NO_3 (Calc.)	1 2 3 4 5 6 7 8 9 10
Suspended Solids - SS	1 2 3 4 5 6 7 8 9 10
Disolved Solids - TDS	1 2 3 4 5 6 7 8 9 10
Turbidity	1 2 3 4 5 6 7 8 9 10
MN - Inorganic Matrix Neutral	
Total Alkalinity	1 2 3 4 5 6 7 8 9 10
Bicarb/Carb Alkalinity (Includes Total Alkalinity)	1 2 3 4 5 6 7 8 9 10
Chloride - Cl	1 2 3 4 5 6 7 8 9 10
Sulfate - SO_4	1 2 3 4 5 6 7 8 9 10
Chromium 6 - Cr^{+6}	1 2 3 4 5 6 7 8 9 10
Conductivity	1 2 3 4 5 6 7 8 9 10
pH	1 2 3 4 5 6 7 8 9 10
GA - General Chemistry Acidic	
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Diss Org Carbon - DOC	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Ammonia - NH_3	1 2 3 4 5 6 7 8 9 10
Nitrate+Nitrite - NO_3+NO_2	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

NO at

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Dan Peabody MDEQ	6/12/14 1055
Signature:	[signature]	[signature]	
Print Name & Org.	Dan Peabody MDEQ	Melissa Smith	6/13/14 945
Signature:	[signature]	[signature]	
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406174	Abandoned Mining Waste- Torch Lake PCB	WATER

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Keranena@michigan.gov		Contract Firm: Weston Solutions
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: Jeff Binkley
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906 523 5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	11	CHLL-~~GW~~ PC1 MW 108A	6-11-14	924		
2	12	CHLL-~~GW~~ PC1 MW 108B	6-11-14	1034		
3	13	CHLL-~~GW~~ PC1 MW 113	6-11-14	1144		
4	14	CHLL-~~GW~~ PC1 MW 118	6-11-14	1325		
5	15	CHLL-~~GW~~ PC1 MW 120	6-11-14	1339 ~~1335~~		
6	16	CHLL-~~GW~~ PC1 MW-113 DUP	6-11-14	1144		
7		CHLL-GW				
8		CHLL-GW				
9		CHLL-GW				
10		CHLL-GW				

ORGANIC CHEMISTRY	
VOA - Volatile Organic Acidic	
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10
METH - Methane, Ethane, Ethene	
Methane, Ethane, Ethene	1 2 3 4 5 6 7 8 9 10
ON - Pesticides, PCBs	
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10
Specialty Pesticides	1 2 3 4 5 6 7 8 9 10
BNA - Base Neutral Acids	
BNAs	1 2 3 4 5 6 7 8 9 10
Benzidines	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10
Acids only	1 2 3 4 5 6 7 8 9 10
Organic Specialty Requests	
Library search-Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search-SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10
METALS CHEMISTRY PACKAGES	
OpMemo2 - Total	1 2 3 4 5 6 7 8 9 10
OpMemo2 - Dissolved	1 2 3 4 5 6 7 8 9 10
(Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	
Michigan10 - Total	1 2 3 4 5 6 7 8 9 10
Michigan10 - Dissolved	1 2 3 4 5 6 7 8 9 10
(As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	

MAD - DISSOLVED METALS	
Diss - Silver - Ag	1 2 3 4 5 6 7 8 9 10
Diss - Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Diss - Arsenic - As	1 2 3 4 5 6 7 8 9 10
Diss - Boron - B	1 2 3 4 5 6 7 8 9 10
Diss - Barium - Ba	1 2 3 4 5 6 7 8 9 10
Diss - Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Diss - Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Diss - Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Diss - Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Diss - Copper - Cu	1 2 3 4 5 6 7 8 9 10
Diss - Iron - Fe	1 2 3 4 5 6 7 8 9 10
Diss - Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Diss - Lithium - Li	1 2 3 4 5 6 7 8 9 10
Diss - Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Diss - Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Diss - Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Diss - Lead - Pb	1 2 3 4 5 6 7 8 9 10
Diss - Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Diss - Selenium - Se	1 2 3 4 5 6 7 8 9 10
Diss - Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Diss - Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Diss - Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Diss - Vanadium - V	1 2 3 4 5 6 7 8 9 10
Diss - Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Diss - Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Diss - Potassium - K	1 2 3 4 5 6 7 8 9 10
Diss - Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Diss - Sodium - Na	1 2 3 4 5 6 7 8 9 10
Diss - Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10
MD - Metals Dissolved	
Lab Filtration	1 2 3 4 5 6 7 8 9 10

MA - TOTAL METALS	
Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Boron - B	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10
Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10
LHG - Low Level Mercury	
Mercury Low Level - Hg	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY	
GB - General Basic	
Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Amenable Cyanide - CN	1 2 3 4 5 6 7 8 9 10
GCN - General Cyanide	
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
CA - Chlorophyll	
Chlorophyll	1 2 3 4 5 6 7 8 9 10
GN - General Chemistry Neutral	
Ortho Phosphate - OP	1 2 3 4 5 6 7 8 9 10
Nitrite - NO_2	1 2 3 4 5 6 7 8 9 10
Nitrate - NO_3 (Calc.)	1 2 3 4 5 6 7 8 9 10
Suspended Solids - SS	1 2 3 4 5 6 7 8 9 10
Disolved Solids - TDS	1 2 3 4 5 6 7 8 9 10
Turbidity	1 2 3 4 5 6 7 8 9 10
MN - Inorganic Matrix Neutral	
Total Alkalinity	1 2 3 4 5 6 7 8 9 10
Bicarb/Carb Alkalinity (includes Total Alkalinity)	1 2 3 4 5 6 7 8 9 10
Chloride - Cl	1 2 3 4 5 6 7 8 9 10
Sulfate - SO_4	1 2 3 4 5 6 7 8 9 10
Chromium 6 - Cr^{+6}	1 2 3 4 5 6 7 8 9 10
Conductivity	1 2 3 4 5 6 7 8 9 10
pH	1 2 3 4 5 6 7 8 9 10
GA - General Chemistry Acidic	
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Diss Org Carbon - DOC	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Ammonia - NH_3	1 2 3 4 5 6 7 8 9 10
Nitrate+Nitrite - NO_3+NO_2	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Dan Peabody MDEQ	6/12/14 1100
Signature:			
Print Name & Org.	Dan Peabody MDEQ	Melissa Smith	6/13/14 945
Signature:			
Print Name & Org.			
Signature:			

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

03 July 2014

Work Order: 1406177

Price: $2,800.00

Jeff Pincumbe
MDEQ-RRD-LANSING
525 W. Allegan Street
Lansing, MI 48909

RE: ABANDONED MINING WASTE-TORCH LAKE PCB

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

Sincerely,

George Krisztian
Laboratory Director

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

MDEQ-RRD-LANSING	Project: ABANDONED MINING WASTE-TORCH LAKE PCB	
525 W. Allegan Street	Site Code: 31000098	**Reported:**
Lansing MI, 48909	Project Manager: Jeff Pincumbe	07/03/2014

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
CHLL-SB 33 6"-12"	1406177-01	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB 33 1'-4'	1406177-02	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB34 6"-12"	1406177-03	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB 34 1'-4'	1406177-04	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB 34 1'-4' DUP	1406177-05	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB35 1'-4'	1406177-06	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB36 6"-12"	1406177-07	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB 36 1'-4'	1406177-08	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB37 6"-12"	1406177-09	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB 37 1'-4'	1406177-10	Soil/Sediment	06/11/2014	06/13/2014	

Notes and Definitions

Y21	Reporting Limits (RL) raised due to matrix interference.
X3	Spike recovery is not applicable due to large target analyte concentration in the source sample.
T	Reported value is less than the reporting limit (RL). Result is estimated.
JA	Result is estimated due to multiple Aroclors present.
I	Dilution required due to matrix interference; reporting limit (RL) raised.
A09	Result is estimated due to high recovery of batch quality control.
A03	Result(s) and reporting limit(s) are estimated due to low matrix spike recovery.
ND	Indicates compound analyzed for but not detected
RL	Reporting Limit
NA	Not Applicable
dry	Sample results reported on a dry weight basis

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB 33 6''-12''

Lab ID: 1406177-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*75.5 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*75.3 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**94.2**	0.1	%	1	06/16/14	B4F1611	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**22000**	1000	mg/kg dry	10000	07/02/14	B4F1903	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**15**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**40**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.9**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**39**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**24**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**5300**	1000	mg/kg dry	10000	07/02/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**30000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**17**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**740**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.06**	0.05	mg/kg dry	1	07/02/14	B4F3014	7471/245.5	
7440-02-0	**Nickel**	**79**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**1.8**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**170**	10	mg/kg dry	100	07/01/14	B4F1903	6020/200.8	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB 33 1'-4'

Lab ID: 1406177-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*108 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*92.5 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**90.5**	0.1	%	1	06/16/14	B4F1611	2540 B	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB34 6"-12"

Lab ID: 1406177-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	**Aroclor 1254**	**660**	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	JA
11096-82-5	**Aroclor 1260**	**250**	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	JA
37324-23-5	Aroclor 1262	ND	260	ug/kg dry	1	06/28/14	B4F1923	8081/8082	Y21
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*38.2 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*56.7 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**89.8**	0.1	%	1	06/16/14	B4F1611	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**13000**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**56**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**1600**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**340**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.7**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	**Cadmium**	**7.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**200**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**13**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**63000**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**47000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**660**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**440**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.4**	0.06	mg/kg dry	1	07/02/14	B4F3014	7471/245.5	
7440-02-0	**Nickel**	**76**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.8**	0.2	mg/kg dry	10	07/02/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**13**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**3000**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB 34 1'-4'

Lab ID: 1406177-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*69.6 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*76.4 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**93.3**	0.1	%	1	06/16/14	B4F1611	2540 B	

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB 34 1'-4' DUP

Lab ID: 1406177-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*56.9 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*57.1 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**94.1**	0.1	%	1	06/16/14	B4F1611	2540 B	

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P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB35 1'-4'

Lab ID: 1406177-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*75.2 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*64.0 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**92.4**	0.1	%	1	06/16/14	B4F1611	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**3100**	10	mg/kg dry	100	07/02/14	B4F1903	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**1.9**	0.5	mg/kg dry	10	07/02/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**14**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	Beryllium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**15**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**2.6**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**21**	1.0	mg/kg dry	10	07/02/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**6800**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**1.4**	1.0	mg/kg dry	10	07/02/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**54**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	Mercury	ND	0.05	mg/kg dry	1	07/02/14	B4F3014	7471/245.5	
7440-02-0	**Nickel**	**7.1**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	Selenium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	Silver	ND	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**13**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB36 6"-12"

Lab ID: 1406177-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*64.0 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*63.6 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**99.5**	0.1	%	1	06/16/14	B4F1611	2540 B	
57-12-5	Total Cyanide	ND	0.10	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**33000**	1000	mg/kg dry	10000	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**0.5**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**5.5**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**1400**	10	mg/kg dry	100	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**1.4**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**130**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**11**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**13000**	1000	mg/kg dry	10000	07/02/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**140000**	50	mg/kg dry	100	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**29**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**690**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	Mercury	ND	0.05	mg/kg dry	1	07/02/14	B4F3014	7471/245.5	
7440-02-0	**Nickel**	**13**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.2**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**1.9**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**140**	10	mg/kg dry	100	07/01/14	B4F1903	6020/200.8	

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DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB 36 1'-4'

Lab ID: 1406177-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*77.4 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*67.9 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**98.8**	0.1	%	1	06/16/14	B4F1611	2540 B	

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

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TEL: (517) 335-9800
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Client ID: CHLL-SB37 6"-12"

Lab ID: 1406177-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	**Aroclor 1254**	**98**	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	T
11096-82-5	Aroclor 1260	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*40.5 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*59.0 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**95.7**	0.1	%	1	06/16/14	B4F1611	2540 B	
57-12-5	Total Cyanide	ND	1.0	mg/kg dry	10	06/18/14	B4F1606	ASTM D 7511-09	I
Inorganics-Metals									
7429-90-5	**Aluminium**	**25000**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**5.9**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	A03
7440-38-2	**Arsenic**	**27**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**1000**	10	mg/kg dry	100	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**1.6**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	**Cadmium**	**10**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**88**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**9.2**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**10000**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**90000**	50	mg/kg dry	100	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**210**	10	mg/kg dry	100	07/01/14	B4F1903	6020/200.8	A03
7439-96-5	**Manganese**	**580**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.06**	0.05	mg/kg dry	1	07/02/14	B4F3014	7471/245.5	
7440-02-0	**Nickel**	**17**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.4**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**3.4**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**690**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB 37 1'-4'

Lab ID: 1406177-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	100	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*46.9 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*50.6 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**96.2**	0.1	%	1	06/16/14	B4F1611	2540 B	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Page_____ of _____

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406177	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Keranema@michigan.gov		Contract Firm: Weston Solutions
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1: ALS for hex Cr.	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: Jeff Binkley
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-SB 33 6"-12"	6-11-14	8:57		
2	02	CHLL-SB 33 1'-4'	6-11-14	9:01		
3	03	CHLL-SB 34 6"-12"	6-11-14	9:40		
4	04	CHLL-SB 34 1'-4'	6-11-14	9:50		
5	05	CHLL-SB 34 1'-4' dup	6-11-14	9:50		
6	06	CHLL-SB 35 1'-4'	6-11-14	10:30		
7	07	CHLL-SB 36 6"-12"	6-11-14	11:20		
8	08	CHLL-SB 36 1'-4'	6-11-14	11:20		
9	09	CHLL-SB 37 6"-12"	6-11-14	1225		add hexavalent Cr → to overflow
10	10	CHLL-SB 37 1'-4'	6-11-14	1200		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

Cr^{+6} 9 → ALS

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Dan Peabody MDEQ	6/12/14 1105
Signature:			
Print Name & Org.	Dan Peabody MDEQ	Joshua Pung MDEQ	6/13/14 1003
Signature:			
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

07 July 2014

Work Order: 1406230

Price: $1,350.00

Jeff Pincumbe
MDEQ-RRD-LANSING
525 W. Allegan Street
Lansing, MI 48909

RE: ABANDONED MINING WASTE-TORCH LAKE PCB

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

Sincerely,

George Krisztian
Laboratory Director

STATE OF MICHIGAN
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MDEQ-RRD-LANSING	Project: ABANDONED MINING WASTE-TORCH LAKE PCB	
525 W. Allegan Street	Site Code: 31000098	**Reported:**
Lansing MI, 48909	Project Manager: Jeff Pincumbe	07/07/2014

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
CHLL-SD 50-0"-6"	1406230-01	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 50-1'-3'	1406230-02	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 50-3'-5'	1406230-03	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 09-0"-6"	1406230-04	Soil/Sediment	06/15/2014	06/18/2014	
CHLL-SD 09-1'-2.1'	1406230-05	Soil/Sediment	06/15/2014	06/18/2014	
CHLL-SD 09-1'-2.1' dup	1406230-06	Soil/Sediment	06/15/2014	06/18/2014	
CHLL-SD 10-0"-6"	1406230-07	Soil/Sediment	06/15/2014	06/18/2014	
CHLL-SD 10-1'-2'	1406230-08	Soil/Sediment	06/15/2014	06/18/2014	
CHLL-SD 12-0"-6"	1406230-09	Soil/Sediment	06/15/2014	06/18/2014	
CHLL-SD 12-1'-2.5'	1406230-10	Soil/Sediment	06/15/2014	06/18/2014	

Notes and Definitions

ND	Indicates compound analyzed for but not detected
RL	Reporting Limit
NA	Not Applicable

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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 50-0''-6''

Lab ID: 1406230-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*66.8 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*73.1 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**53.2**	0.1	%	1	06/19/14	B4F1909	2540 B	

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TEL: (517) 335-9800
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Client ID: CHLL-SD 50-1'-3'

Lab ID: 1406230-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	190	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*84.3 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*93.7 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**52.8**	0.1	%	1	06/19/14	B4F1909	2540 B	

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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 50-3'-5'

Lab ID: 1406230-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	180	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	180	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	180	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	180	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	180	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	180	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	180	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	180	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	180	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*77.7 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*84.8 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**55.3**	0.1	%	1	06/19/14	B4F1909	2540 B	

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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 09-0''-6''

Lab ID: 1406230-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*78.0 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*69.5 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**73.1**	0.1	%	1	06/19/14	B4F1909	2540 B	

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P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 09-1'-2.1'

Lab ID: 1406230-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*84.0 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*70.5 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**74.9**	0.1	%	1	06/19/14	B4F1909	2540 B	

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Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 09-1'-2.1' dup

Lab ID: 1406230-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*68.2 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*60.4 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**74.0**	0.1	%	1	06/19/14	B4F1909	2540 B	

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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 10-0''-6''

Lab ID: 1406230-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*74.2 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*68.5 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**69.5**	0.1	%	1	06/19/14	B4F1909	2540 B	

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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 10-1'-2'

Lab ID: 1406230-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	150	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	150	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	150	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	150	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	150	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	150	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	150	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	150	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	150	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*90.4 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*83.8 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**68.1**	0.1	%	1	06/19/14	B4F1909	2540 B	

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P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 12-0''-6''

Lab ID: 1406230-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	140	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*88.4 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*77.6 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**72.5**	0.1	%	1	06/19/14	B4F1909	2540 B	

STATE OF MICHIGAN
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 12-1'-2.5'

Lab ID: 1406230-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	130	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*87.9 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*75.6 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**76.7**	0.1	%	1	06/19/14	B4F1909	2540 B	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Page_____ of _____

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406230	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Keranena@michigan.gov		Contract Firm: WESTON SOLUTIONS
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: JEFF BINKLEY
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906-523-5457

	Lab Use Only	Field Sample Identification (SD = sediment)	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-SD 50- 0"-6"	6/14/14	1501		
2	02	CHLL-SD 50-1'-3'	6/14/14	1510		
3	03	CHLL-SD 50-3'-5'	6/14/14	1515		
4	04	CHLL-SD 09-0"-6"	6/15/14	845		
5	05	CHLL-SD 09-1'-2.1'	6/15/14	850		
6	06	CHLL-SD 09-1'-2.1' dup	6/15/14	850		
7	07	CHLL-SD 10- 0"-6"	6/15/14	954		
8	08	CHLL-SD 10-1'-2'	6/15/14	1000		
9	09	CHLL-SD 12-0"-6"	6/15/14	1050		
10	10	CHLL-SD 12-1'-2.5'	6/15/14	1055		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 0900
Signature:	[signature]	[signature]	
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

07 July 2014

Work Order: 1406229

Price: $2,700.00

Jeff Pincumbe
MDEQ-RRD-LANSING
525 W. Allegan Street
Lansing, MI 48909

RE: ABANDONED MINING WASTE-TORCH LAKE PCB

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

Sincerely,

George Krisztian
Laboratory Director

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FAX: (517) 335-9600

MDEQ-RRD-LANSING
525 W. Allegan Street
Lansing MI, 48909

Project: ABANDONED MINING WASTE-TORCH LAKE PCB
Site Code: 31000098
Project Manager: Jeff Pincumbe

Reported:
07/07/2014

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
CHLL-SD 70-0-6"	1406229-01	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 70-1'-3'	1406229-02	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 70-3-'4.5'	1406229-03	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 66-0"-6"	1406229-04	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 66-1'-1.5'	1406229-05	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 65-0"-6"	1406229-06	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 65-.75'-1'	1406229-07	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 51-0"-6"	1406229-08	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 51-1'-3'	1406229-09	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 51-3'-5'	1406229-10	Soil/Sediment	06/14/2014	06/18/2014	
CHLL-SD 13-0"-6"	1406229-11	Soil/Sediment	06/15/2014	06/18/2014	
CHLL-SD 13-1'-2'	1406229-12	Soil/Sediment	06/15/2014	06/18/2014	
CHLL-SD 13-1'-2' dup	1406229-13	Soil/Sediment	06/15/2014	06/18/2014	
CHLL-SD 15-0-6"	1406229-14	Soil/Sediment	06/16/2014	06/18/2014	
CHLL-SD 15-1'-2.7'	1406229-15	Soil/Sediment	06/16/2014	06/18/2014	
CHLL-SD 20-0-6"	1406229-16	Soil/Sediment	06/16/2014	06/18/2014	
CHLL-SD 20-1'-2'	1406229-17	Soil/Sediment	06/16/2014	06/18/2014	
CHLL-SD 22-0-6"	1406229-18	Soil/Sediment	06/16/2014	06/18/2014	
CHLL-SD 22-0-6" dup	1406229-19	Soil/Sediment	06/16/2014	06/18/2014	
CHLL-SD 22-1'-1.5'	1406229-20	Soil/Sediment	06/16/2014	06/18/2014	

Notes and Definitions

Y21	Reporting Limits (RL) raised due to matrix interference.
JA	Result is estimated due to multiple Aroclors present.
ND	Indicates compound analyzed for but not detected
RL	Reporting Limit
NA	Not Applicable
dry	Sample results reported on a dry weight basis

Lab Work Order # 1406229

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 70-0-6''

Lab ID: 1406229-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	250	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	250	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	250	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	250	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	250	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	250	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	250	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	250	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	250	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*70.4 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*82.4 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**39.9**	0.1	%	1	06/19/14	B4F1908	2540 B	

Lab Work Order # 1406229

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 70-1'-3'

Lab ID: 1406229-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*74.3 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*71.9 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**72.5**	0.1	%	1	06/19/14	B4F1908	2540 B	

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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 70-3-'4.5'

Lab ID: 1406229-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	140	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*68.8 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*72.0 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**72.0**	0.1	%	1	06/19/14	B4F1908	2540 B	

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 66-0''-6''

Lab ID: 1406229-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	170	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	170	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	170	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	170	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	170	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	170	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	170	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	170	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	170	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*73.6 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*73.6 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**57.6**	0.1	%	1	06/19/14	B4F1908	2540 B	

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 66-1'-1.5'

Lab ID: 1406229-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	220	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	220	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	220	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	220	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	220	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	220	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	220	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	220	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	220	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*63.9 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*73.5 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**46.5**	0.1	%	1	06/19/14	B4F1908	2540 B	

STATE OF MICHIGAN
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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 65-0''-6''

Lab ID: 1406229-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	210	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	210	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	210	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	210	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	210	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	210	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	210	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	210	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	210	ug/kg dry	1	06/28/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*65.8 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*71.4 %*	*30-150*		*06/28/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**47.2**	0.1	%	1	06/19/14	B4F1908	2540 B	

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 65-.75'-1'

Lab ID: 1406229-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	1000	ug/kg dry	5	06/30/14	B4F1923	8081/8082	Y21
11104-28-2	Aroclor 1221	ND	1000	ug/kg dry	5	06/30/14	B4F1923	8081/8082	Y21
11141-16-5	Aroclor 1232	ND	1000	ug/kg dry	5	06/30/14	B4F1923	8081/8082	Y21
53469-21-9	Aroclor 1242	ND	1000	ug/kg dry	5	06/30/14	B4F1923	8081/8082	Y21
12672-29-6	Aroclor 1248	ND	1000	ug/kg dry	5	06/30/14	B4F1923	8081/8082	Y21
11097-69-1	Aroclor 1254	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*54.1 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*65.8 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**49.7**	0.1	%	1	06/19/14	B4F1908	2540 B	

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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 51-0''-6''

Lab ID: 1406229-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	190	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	190	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	190	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	190	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	190	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	190	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	190	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	190	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	190	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*69.5 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*80.8 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**51.6**	0.1	%	1	06/19/14	B4F1908	2540 B	

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Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 51-1'-3'

Lab ID: 1406229-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	180	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	180	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	180	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	180	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	180	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	180	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	180	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	180	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	180	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*77.5 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*81.9 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**55.5**	0.1	%	1	06/19/14	B4F1908	2540 B	

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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 51-3'-5'

Lab ID: 1406229-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	200	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*70.4 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*72.3 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**49.2**	0.1	%	1	06/19/14	B4F1908	2540 B	

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TEL: (517) 335-9800
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Client ID: CHLL-SD 13-0''-6''

Lab ID: 1406229-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	140	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11104-28-2	Aroclor 1221	ND	140	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11141-16-5	Aroclor 1232	ND	140	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
53469-21-9	Aroclor 1242	ND	140	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
12672-29-6	Aroclor 1248	ND	140	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11097-69-1	Aroclor 1254	ND	140	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11096-82-5	Aroclor 1260	ND	140	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
37324-23-5	Aroclor 1262	ND	140	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
11100-14-4	Aroclor 1268	ND	140	ug/kg dry	1	06/29/14	B4F1923	8081/8082	
Surrogate: Decachlorobiphenyl			*73.4 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*67.4 %*	*30-150*		*06/29/14*	B4F1923	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**70.9**	0.1	%	1	06/19/14	B4F1908	2540 B	

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TEL: (517) 335-9800
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Client ID: CHLL-SD 13-1'-2'

Lab ID: 1406229-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*89.9 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*70.0 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**78.2**	0.1	%	1	06/19/14	B4F1908	2540 B	

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Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 13-1'-2' dup

Lab ID: 1406229-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	130	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*77.9 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*50.5 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**78.9**	0.1	%	1	06/19/14	B4F1908	2540 B	

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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 15-0-6"

Lab ID: 1406229-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	240	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
11104-28-2	Aroclor 1221	ND	240	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
11141-16-5	Aroclor 1232	ND	240	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
53469-21-9	Aroclor 1242	ND	240	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
12672-29-6	**Aroclor 1248**	**230**	170	ug/kg dry	1	07/01/14	B4F2608	8081/8082	JA
11097-69-1	**Aroclor 1254**	**270**	170	ug/kg dry	1	07/01/14	B4F2608	8081/8082	JA
11096-82-5	Aroclor 1260	ND	170	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	170	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	170	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*68.5 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*72.1 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**58.5**	0.1	%	1	06/19/14	B4F1908	2540 B	

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Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 15-1'-2.7'

Lab ID: 1406229-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	210	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
11104-28-2	Aroclor 1221	ND	210	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
11141-16-5	Aroclor 1232	ND	210	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
53469-21-9	Aroclor 1242	ND	210	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
12672-29-6	Aroclor 1248	ND	210	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
11097-69-1	Aroclor 1254	ND	180	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
11096-82-5	Aroclor 1260	ND	300	ug/kg dry	1	07/01/14	B4F2608	8081/8082	Y21
37324-23-5	**Aroclor 1262**	**290**	140	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	140	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*84.6 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*67.4 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**70.5**	0.1	%	1	06/19/14	B4F1909	2540 B	

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P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 20-0-6"

Lab ID: 1406229-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	150	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	150	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	150	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	150	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	150	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	150	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	150	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	150	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	150	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*91.1 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*73.9 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**68.1**	0.1	%	1	06/19/14	B4F1909	2540 B	

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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 20-1'-2'

Lab ID: 1406229-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	120	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	120	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	120	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	07/01/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*80.5 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*66.0 %*	*30-150*		*07/01/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**84.7**	0.1	%	1	06/19/14	B4F1909	2540 B	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 22-0-6"

Lab ID: 1406229-18

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	120	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	120	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	120	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*79.5 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*64.4 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**86.0**	0.1	%	1	06/19/14	B4F1909	2540 B	

STATE OF MICHIGAN
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 22-0-6" dup

Lab ID: 1406229-19

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*87.3 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*78.8 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**87.5**	0.1	%	1	06/19/14	B4F1909	2540 B	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SD 22-1'-1.5'

Lab ID: 1406229-20

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	07/02/14	B4F2608	8081/8082	
Surrogate: Decachlorobiphenyl			*99.7 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*88.6 %*	*30-150*		*07/02/14*	B4F2608	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**87.1**	0.1	%	1	06/19/14	B4F1909	2540 B	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406229	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: kerainema@michigan.gov		Contract Firm: WESTON SOLUTIONS
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: JEFF BINKLEY
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906-523-5457

	Lab Use Only	Field Sample Identification (SD - sediment)	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-SD 70 - 0'-6"	6/14/14	957		
2	02	CHLL-SD 70 - 1'-3'		1007		
3	03	CHLL-SD 70 - 3'-4.5'		1018		
4	04	CHLL-SD 66 - 0'-6"		1213		
5	05	CHLL-SD 66 - 1'-1.5'		1216		
6	06	CHLL-SD 65 - 0'-6"		1116		
7	07	CHLL-SD 65 - .75'-1'		1121		
8	08	CHLL-SD 51 - 0'-6"		1352		
9	09	CHLL-SD 51 - 1'-3'		1357		
10	10	CHLL-SD 51 - 3'-5'		1403		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 0850
Signature:	[signature]	[signature]	
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	1406229
Project Name	Abandoned Mining Waste- Torch Lake PCB
Matrix	SOIL/SEDIMENT
Site Code/Project Number	31000098
AY	14
CC Email 1 to send additional reports to	shireyb
Project TAT Days	
Sample Collector	Aaron Berndt
Dept-Division-District	RRD-PSS-GSU
Index	44031
CC Email 2 to send additional reports to	j.binkley@westonsolutions.com
Project Due Date	
Sample Collector Phone	517-335-6419
State Project Manager	Jeff Pincumbe
PCA	30740
CC Email 3 to send additional reports to	Keranena@michigan.gov
Contract Firm	Weston solutions
State Project Manager Email	pincumbej
Project	456990
Overflow Lab Choice 1	
Accept Analysis hold time codes: Yes/No	NO
Contract Firm Primary Contact	Jeff Binkley
State Project Manager Phone	517-335-6418
Phase	0
Overflow Lab Choice 2	
Primary Contact Phone	906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	11	CHLL-SD 13 - 0-6"	6/15/14	1131		
2	12	CHLL-SD 13 - 1'-2'		1135		
3	13	CHLL-SD 13 - 1'-2' dup		1135		
4	14	CHLL-SD 15 - 0-6"	6/16/14	919		in 14' water
5	15	CHLL-SD 15 - 1'-2.7'	6/16/14	923		in
6	16	CHLL-SD 20 - 0-6"		1033		in 22' water
7	17	CHLL-SD 20 - 1'-2'		1036		
8	18	CHLL-SD 22 - 0-6"		1127		in 3' water
9	19	CHLL-SD 22 - 0-6" dup		1127		
10	20	CHLL-SD 22 - 1'-1.5'		1130		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
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Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
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Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Aaron Berndt - MDEQ	Melissa Smith	6/18/14 0850
Signature:	Aaron Berndt	MDEQ	
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

08 July 2014

Work Order: 1406176

Price: $7,709.50

Jeff Pincumbe
MDEQ-RRD-LANSING
525 W. Allegan Street
Lansing, MI 48909

RE: ABANDONED MINING WASTE-TORCH LAKE PCB

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

Sincerely,

George Krisztian
Laboratory Director

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

MDEQ-RRD-LANSING	Project: ABANDONED MINING WASTE-TORCH LAKE PCB	
525 W. Allegan Street	Site Code: 31000098	**Reported:**
Lansing MI, 48909	Project Manager: Jeff Pincumbe	07/08/2014

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
CHLL-SB52 0-6"	1406176-01	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB52 6"-4'	1406176-02	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB32 0-6"	1406176-03	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB32 6"-4'	1406176-04	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB31 0-6"	1406176-05	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB31 6"-4'	1406176-06	Soil/Sediment	06/11/2014	06/13/2014	
CHLL-SB53 6"-12"	1406176-07	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB38 6"-12"	1406176-08	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB38 1'-4'	1406176-09	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB39 6"-12"	1406176-10	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB39 1'-4'	1406176-11	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB39 1'-4' DUP	1406176-12	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB54 6"-18"	1406176-13	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB40 6"-12"	1406176-14	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB40 1'-4'	1406176-15	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB41 6"-12"	1406176-16	Soil/Sediment	06/12/2014	06/13/2014	
CHLL-SB41 1'-4'	1406176-17	Soil/Sediment	06/12/2014	06/13/2014	

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TEL: (517) 335-9800
FAX: (517) 335-9600

Notes and Definitions

Y37	Raised RL due to possible laboratory contamination.
Y21	Reporting Limits (RL) raised due to matrix interference.
Y20	Reporting Limits (RL) raised due to matrix.
X3	Spike recovery is not applicable due to large target analyte concentration in the source sample.
X	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 ºC. 2-Methylnaphthalene & naphthalene have boiling points above 200 ºC and are better suited to analysis by methods 8270 & 625 as semivolatile organics.
JA	Result is estimated due to multiple Aroclors present.
A11	Result is estimated due to high initial verification standard criteria failure.
A10	Result and reporting limit are estimated due to low initial verification standard criteria failure.
A09	Result is estimated due to high recovery of batch quality control.
A06	Result is estimated due to high continuing calibration standard criteria failure.
A05	Result and reporting limit are estimated due to low continuing calibration standard criteria failure.
A03	Result(s) and reporting limit(s) are estimated due to low matrix spike recovery.
ND	Indicates compound analyzed for but not detected
RL	Reporting Limit
NA	Not Applicable
dry	Sample results reported on a dry weight basis

STATE OF MICHIGAN
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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB52 0-6"

Lab ID: 1406176-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
71-55-6	1,1,1-Trichloroethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
79-00-5	1,1,2-Trichloroethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
75-34-3	1,1-Dichloroethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
75-35-4	1,1-Dichloroethylene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
96-18-4	1,2,3-Trichloropropane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
95-63-6	**1,2,4-Trimethylbenzene**	**110**	70	ug/kg dry	50	06/18/14	B4F1814	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
106-93-4	1,2-Dibromoethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
95-50-1	1,2-Dichlorobenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
107-06-2	1,2-Dichloroethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
78-87-5	1,2-Dichloropropane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
541-73-1	1,3-Dichlorobenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
106-46-7	1,4-Dichlorobenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
78-93-3	2-Butanone (MEK)	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
591-78-6	2-Hexanone	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
91-57-6	2-Methylnaphthalene	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	X
67-64-1	2-Propanone (acetone)	ND	1400	ug/kg dry	50	06/18/14	B4F1814	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
107-13-1	Acrylonitrile	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
71-43-2	Benzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
108-86-1	Bromobenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
74-97-5	Bromochloromethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
75-27-4	Bromodichloromethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
75-25-2	Bromoform	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
74-83-9	Bromomethane	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
75-15-0	Carbon disulfide	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
56-23-5	Carbon tetrachloride	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
108-90-7	Chlorobenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
75-00-3	Chloroethane	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
67-66-3	Chloroform	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
74-87-3	Chloromethane	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
110-82-7	Cyclohexane	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
124-48-1	Dibromochloromethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	

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Client ID: CHLL-SB52 0-6"

Lab ID: 1406176-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
75-71-8	Dichlorodifluoromethane	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
60-29-7	Diethyl ether	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
108-20-3	Diisopropyl Ether	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	A03, A05
100-41-4	Ethylbenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
637-92-3	Ethyltertiarybutylether	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
67-72-1	Hexachloroethane	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
98-82-8	Isopropylbenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
1330-20-7	**m & p - Xylene**	**210**	140	ug/kg dry	50	06/18/14	B4F1814	8260	
74-88-4	Methyl iodide	ND	280	ug/kg dry	50	06/18/14	B4F1814	8260	A05, A10, Y37
75-09-2	Methylene chloride	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
1634-04-4	Methyltertiarybutylether	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
91-20-3	Naphthalene	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	X
104-51-8	n-Butylbenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
103-65-1	n-Propylbenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
95-47-6	**o-Xylene**	**150**	70	ug/kg dry	50	06/18/14	B4F1814	8260	
99-87-6	p-Isopropyl toluene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
135-98-8	sec-Butylbenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
100-42-5	Styrene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
98-06-6	tert-Butylbenzene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
75-65-0	tertiary Butyl Alcohol	ND	3500	ug/kg dry	50	06/18/14	B4F1814	8260	A03
994-05-8	tertiaryAmylmethylether	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
127-18-4	Tetrachloroethylene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
109-99-9	Tetrahydrofuran	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
108-88-3	**Toluene**	**190**	70	ug/kg dry	50	06/18/14	B4F1814	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	350	ug/kg dry	50	06/18/14	B4F1814	8260	
79-01-6	Trichloroethylene	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
75-69-4	Trichlorofluoromethane	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
75-01-4	Vinyl chloride	ND	70	ug/kg dry	50	06/18/14	B4F1814	8260	
Surrogate: Bromofluorobenzene			*94.3 %*	*50-150*		*06/18/14*	B4F1814	*8260*	
Surrogate: Dibromofluoromethane			*98.1 %*	*50-150*		*06/18/14*	B4F1814	*8260*	
Surrogate: Toluene-d8			*97.4 %*	*50-150*		*06/18/14*	B4F1814	*8260*	

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Client ID: CHLL-SB52 0-6"

Lab ID: 1406176-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									**See note Y20, Y21**
91-57-6	2-Methylnaphthalene	ND	3000	ug/kg dry	1	06/25/14	B4F1621	8270	
83-32-9	Acenaphthene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
208-96-8	Acenaphthylene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
120-12-7	Anthracene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
56-55-3	Benz[a]anthracene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
50-32-8	Benzo[a]pyrene	ND	2400	ug/kg dry	1	06/25/14	B4F1621	8270	
205-99-2	Benzo[b]fluoranthene	ND	2400	ug/kg dry	1	06/25/14	B4F1621	8270	
191-24-2	Benzo[g,h,i]perylene	ND	2400	ug/kg dry	1	06/25/14	B4F1621	8270	
207-08-9	Benzo[k]fluoranthene	ND	2400	ug/kg dry	1	06/25/14	B4F1621	8270	
218-01-9	Chrysene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
53-70-3	Dibenz[a,h]anthracene	ND	2400	ug/kg dry	1	06/25/14	B4F1621	8270	
206-44-0	Fluoranthene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
86-73-7	Fluorene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	2400	ug/kg dry	1	06/25/14	B4F1621	8270	
91-20-3	Naphthalene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
85-01-8	Phenanthrene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
129-00-0	Pyrene	ND	1200	ug/kg dry	1	06/25/14	B4F1621	8270	
Surrogate: 2-Fluorobiphenyl			*71.2 %*	*32.9-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: Nitrobenzene-d5			*82.9 %*	*31.8-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: p-Terphenyl-d14			*85.2 %*	*38.5-115*		*06/25/14*	B4F1621	*8270*	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	330	ug/kg dry	1	06/23/14	B4F1720	8081/8082	Y21
11096-82-5	Aroclor 1260	ND	210	ug/kg dry	1	06/23/14	B4F1720	8081/8082	Y21
37324-23-5	Aroclor 1262	ND	210	ug/kg dry	1	06/23/14	B4F1720	8081/8082	Y21
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*65.5 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*85.6 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	

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Client ID: CHLL-SB52 0-6"

Lab ID: 1406176-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	**% Total Solids**	**84.4**	0.1	%	1	06/16/14	B4F1610	2540 B	
57-12-5	Total Cyanide	ND	0.12	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**8000**	1000	mg/kg dry	10000	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**9.8**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**120**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**180**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.6**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	**Cadmium**	**1.2**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**34**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**7.1**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**26000**	1000	mg/kg dry	10000	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**19000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**1700**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**320**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.1**	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**21**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**1.0**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**10**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	Zinc	ND	1000	mg/kg dry	10000	07/01/14	B4F1903	6020/200.8	

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Client ID: CHLL-SB52 6''-4'

Lab ID: 1406176-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
71-55-6	1,1,1-Trichloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
79-00-5	1,1,2-Trichloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-34-3	1,1-Dichloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-35-4	1,1-Dichloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
96-18-4	1,2,3-Trichloropropane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
106-93-4	1,2-Dibromoethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
95-50-1	1,2-Dichlorobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
107-06-2	1,2-Dichloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
78-87-5	1,2-Dichloropropane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
541-73-1	1,3-Dichlorobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
106-46-7	1,4-Dichlorobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
78-93-3	2-Butanone (MEK)	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
591-78-6	2-Hexanone	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
91-57-6	2-Methylnaphthalene	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	X
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	06/18/14	B4F1814	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
107-13-1	Acrylonitrile	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
71-43-2	Benzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
108-86-1	Bromobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
74-97-5	Bromochloromethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-27-4	Bromodichloromethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-25-2	Bromoform	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
74-83-9	Bromomethane	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
75-15-0	Carbon disulfide	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
56-23-5	Carbon tetrachloride	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
108-90-7	Chlorobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-00-3	Chloroethane	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
67-66-3	Chloroform	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
74-87-3	Chloromethane	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
110-82-7	Cyclohexane	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
124-48-1	Dibromochloromethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	

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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-71-8	Dichlorodifluoromethane	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
60-29-7	Diethyl ether	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
108-20-3	Diisopropyl Ether	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	A05
100-41-4	Ethylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
637-92-3	Ethyltertiarybutylether	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
67-72-1	Hexachloroethane	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
98-82-8	Isopropylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	06/18/14	B4F1814	8260	
74-88-4	Methyl iodide	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	A05, A10
75-09-2	Methylene chloride	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
1634-04-4	Methyltertiarybutylether	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
91-20-3	Naphthalene	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	X
104-51-8	n-Butylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
103-65-1	n-Propylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
95-47-6	o-Xylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
99-87-6	p-Isopropyl toluene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
135-98-8	sec-Butylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
100-42-5	Styrene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
98-06-6	tert-Butylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-65-0	tertiary Butyl Alcohol	ND	3100	ug/kg dry	50	06/18/14	B4F1814	8260	
994-05-8	tertiaryAmylmethylether	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
127-18-4	Tetrachloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
109-99-9	Tetrahydrofuran	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
108-88-3	Toluene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	310	ug/kg dry	50	06/18/14	B4F1814	8260	
79-01-6	Trichloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-69-4	Trichlorofluoromethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-01-4	Vinyl chloride	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
Surrogate: Bromofluorobenzene			*68.4 %*	*50-150*		*06/18/14*	B4F1814	*8260*	
Surrogate: Dibromofluoromethane			*69.9 %*	*50-150*		*06/18/14*	B4F1814	*8260*	
Surrogate: Toluene-d8			*69.8 %*	*50-150*		*06/18/14*	B4F1814	*8260*	

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB52 6''-4'

Lab ID: 1406176-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									**See note Y20**
91-57-6	2-Methylnaphthalene	ND	560	ug/kg dry	1	06/25/14	B4F1621	8270	
83-32-9	Acenaphthene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
208-96-8	Acenaphthylene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
120-12-7	Anthracene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
56-55-3	Benz[a]anthracene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
50-32-8	Benzo[a]pyrene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
205-99-2	Benzo[b]fluoranthene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
191-24-2	Benzo[g,h,i]perylene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
207-08-9	Benzo[k]fluoranthene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
218-01-9	Chrysene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
53-70-3	Dibenz[a,h]anthracene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
206-44-0	Fluoranthene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
86-73-7	Fluorene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
91-20-3	Naphthalene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
85-01-8	Phenanthrene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
129-00-0	Pyrene	ND	230	ug/kg dry	1	06/25/14	B4F1621	8270	
Surrogate: 2-Fluorobiphenyl			*81.1 %*	*32.9-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: Nitrobenzene-d5			*97.4 %*	*31.8-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: p-Terphenyl-d14			*84.2 %*	*38.5-115*		*06/25/14*	B4F1621	*8270*	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*98.9 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*88.2 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	

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TEL: (517) 335-9800
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Client ID: CHLL-SB52 6''-4'

Lab ID: 1406176-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	**% Total Solids**	**88.6**	0.1	%	1	06/16/14	B4F1610	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**3300**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**0.4**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**3.4**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**29**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**8.0**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**2.6**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**1500**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**6100**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**28**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**87**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	Mercury	ND	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**7.5**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	Selenium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**0.6**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**23**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	

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P.O. Box 30270
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TEL: (517) 335-9800
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Client ID: CHLL-SB32 0-6"
Lab ID: 1406176-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									**See note Y21**
12674-11-2	Aroclor 1016	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11097-69-1	**Aroclor 1254**	**1400**	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	JA
11096-82-5	**Aroclor 1260**	**1900**	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	JA
37324-23-5	Aroclor 1262	ND	2000	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*142 %*	*30-150*		*06/26/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*84.7 %*	*30-150*		*06/26/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**86.5**	0.1	%	1	06/16/14	B4F1610	2540 B	
57-12-5	Total Cyanide	ND	0.12	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**7500**	1000	mg/kg dry	10000	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**46**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**39**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**950**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.5**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**22**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**6.5**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**33000**	1000	mg/kg dry	10000	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**30000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**8800**	1000	mg/kg dry	10000	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**300**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.2**	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**27**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**2.5**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**6.9**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**4700**	1000	mg/kg dry	10000	07/01/14	B4F1903	6020/200.8	

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ENVIRONMENTAL LABORATORY

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Client ID: CHLL-SB32 6''-4'

Lab ID: 1406176-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									**See note Y21**
12674-11-2	Aroclor 1016	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	2000	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	2000	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	1200	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*95.2 %*	*30-150*		*06/26/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*85.8 %*	*30-150*		*06/26/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**84.7**	0.1	%	1	06/16/14	B4F1610	2540 B	
57-12-5	**Total Cyanide**	**0.17**	0.12	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**2000**	1.0	mg/kg dry	10	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**1.1**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**10**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**60**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**7.2**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**2.9**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**480**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**15000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**41**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**78**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.5**	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**6.4**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.4**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**1.3**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**38**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	

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ENVIRONMENTAL LABORATORY

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Client ID: CHLL-SB31 0-6"
Lab ID: 1406176-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									**See note Y21**
12674-11-2	Aroclor 1016	ND	550	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	550	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	550	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	550	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	550	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	550	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	550	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	550	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	550	ug/kg dry	5	06/26/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*72.6 %*	*30-150*		*06/26/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*81.7 %*	*30-150*		*06/26/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**90.2**	0.1	%	1	06/16/14	B4F1610	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**1400**	10	mg/kg dry	100	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**2.9**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**48**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**380**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**14**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**1.7**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**1100**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**26000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**440**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**64**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.06**	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**8.6**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**1.9**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**2.9**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**120**	10	mg/kg dry	100	07/01/14	B4F1903	6020/200.8	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB31 6''-4'

Lab ID: 1406176-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*99.4 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*91.8 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**88.8**	0.1	%	1	06/16/14	B4F1610	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**650**	1.0	mg/kg dry	10	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**0.4**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**64**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**86**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	Beryllium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**3.4**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**0.7**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**180**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**41000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**44**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**20**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	Mercury	ND	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**2.1**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**1.2**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**0.5**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**14**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	

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DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB53 6"-12"

Lab ID: 1406176-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*104 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*91.5 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**78.8**	0.1	%	1	06/16/14	B4F1610	2540 B	
57-12-5	Total Cyanide	ND	0.13	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**4700**	10	mg/kg dry	100	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**1.0**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**7.5**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**240**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.5**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**13**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**4.3**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**400**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**48000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**2100**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**340**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.1**	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**10**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.4**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**2.1**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**250**	10	mg/kg dry	100	07/01/14	B4F1903	6020/200.8	

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB38 6"-12"

Lab ID: 1406176-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	130	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*99.2 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*101 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**78.4**	0.1	%	1	06/16/14	B4F1610	2540 B	
57-12-5	Total Cyanide	ND	0.13	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**4800**	10	mg/kg dry	100	07/02/14	B4F1903	6020/200.8	
7440-36-0	**Antimony**	**0.3**	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**9.3**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**68**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.6**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**10**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**4.2**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**890**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**13000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**46**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**250**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.1**	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**8.9**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.4**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**0.4**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**67**	10	mg/kg dry	100	07/01/14	B4F1903	6020/200.8	

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB38 1'-4'

Lab ID: 1406176-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
71-55-6	1,1,1-Trichloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
79-00-5	1,1,2-Trichloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-34-3	1,1-Dichloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-35-4	1,1-Dichloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
96-18-4	1,2,3-Trichloropropane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
106-93-4	1,2-Dibromoethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
95-50-1	1,2-Dichlorobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
107-06-2	1,2-Dichloroethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
78-87-5	1,2-Dichloropropane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
541-73-1	1,3-Dichlorobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
106-46-7	1,4-Dichlorobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
78-93-3	2-Butanone (MEK)	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
591-78-6	2-Hexanone	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
91-57-6	2-Methylnaphthalene	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	X
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	06/18/14	B4F1814	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
107-13-1	Acrylonitrile	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
71-43-2	Benzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
108-86-1	Bromobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
74-97-5	Bromochloromethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-27-4	Bromodichloromethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-25-2	Bromoform	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
74-83-9	Bromomethane	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
75-15-0	Carbon disulfide	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
56-23-5	Carbon tetrachloride	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
108-90-7	Chlorobenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-00-3	Chloroethane	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
67-66-3	Chloroform	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
74-87-3	Chloromethane	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
110-82-7	Cyclohexane	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
124-48-1	Dibromochloromethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB38 1'-4'

Lab ID: 1406176-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-71-8	Dichlorodifluoromethane	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
60-29-7	Diethyl ether	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
108-20-3	Diisopropyl Ether	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	A05
100-41-4	Ethylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
637-92-3	Ethyltertiarybutylether	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
67-72-1	Hexachloroethane	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
98-82-8	Isopropylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	06/18/14	B4F1814	8260	
74-88-4	Methyl iodide	ND	240	ug/kg dry	50	06/18/14	B4F1814	8260	A05, A10, Y37
75-09-2	Methylene chloride	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
1634-04-4	Methyltertiarybutylether	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
91-20-3	Naphthalene	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	X
104-51-8	n-Butylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
103-65-1	n-Propylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
95-47-6	o-Xylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
99-87-6	p-Isopropyl toluene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
135-98-8	sec-Butylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
100-42-5	Styrene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
98-06-6	tert-Butylbenzene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-65-0	tertiary Butyl Alcohol	ND	3000	ug/kg dry	50	06/18/14	B4F1814	8260	
994-05-8	tertiaryAmylmethylether	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
127-18-4	Tetrachloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
109-99-9	Tetrahydrofuran	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
108-88-3	Toluene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	300	ug/kg dry	50	06/18/14	B4F1814	8260	
79-01-6	Trichloroethylene	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-69-4	Trichlorofluoromethane	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
75-01-4	Vinyl chloride	ND	61	ug/kg dry	50	06/18/14	B4F1814	8260	
Surrogate: Bromofluorobenzene			*101 %*	*50-150*		*06/18/14*	B4F1814	*8260*	
Surrogate: Dibromofluoromethane			*103 %*	*50-150*		*06/18/14*	B4F1814	*8260*	
Surrogate: Toluene-d8			*103 %*	*50-150*		*06/18/14*	B4F1814	*8260*	

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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB38 1'-4'

Lab ID: 1406176-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									**See note Y20**
91-57-6	2-Methylnaphthalene	ND	560	ug/kg dry	1	06/25/14	B4F1621	8270	
83-32-9	Acenaphthene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
208-96-8	Acenaphthylene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
120-12-7	Anthracene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
56-55-3	Benz[a]anthracene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
50-32-8	Benzo[a]pyrene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
205-99-2	Benzo[b]fluoranthene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
191-24-2	Benzo[g,h,i]perylene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
207-08-9	Benzo[k]fluoranthene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
218-01-9	Chrysene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
53-70-3	Dibenz[a,h]anthracene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
206-44-0	Fluoranthene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
86-73-7	Fluorene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	450	ug/kg dry	1	06/25/14	B4F1621	8270	
91-20-3	Naphthalene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
85-01-8	Phenanthrene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
129-00-0	Pyrene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
Surrogate: 2-Fluorobiphenyl			*68.9 %*	*32.9-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: Nitrobenzene-d5			*83.5 %*	*31.8-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: p-Terphenyl-d14			*93.9 %*	*38.5-115*		*06/25/14*	B4F1621	*8270*	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*111 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*91.4 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	

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Client ID: CHLL-SB38 1'-4'

Lab ID: 1406176-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	**% Total Solids**	**89.1**	0.1	%	1	06/16/14	B4F1610	2540 B	

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Client ID: CHLL-SB39 6"-12"

Lab ID: 1406176-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*91.9 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*84.6 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**89.1**	0.1	%	1	06/16/14	B4F1610	2540 B	
57-12-5	Total Cyanide	ND	0.11	mg/kg dry	1	06/18/14	B4F1606	ASTM D 7511-09	
Inorganics-Metals									
7429-90-5	**Aluminium**	**1900**	1.0	mg/kg dry	10	07/02/14	B4F1903	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**3.5**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**25**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.2**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**5.7**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**1.5**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**300**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**5700**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**14**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**76**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	**Mercury**	**0.09**	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**4.3**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.2**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**0.1**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**29**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	

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Client ID: CHLL-SB39 1'-4'

Lab ID: 1406176-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
71-55-6	1,1,1-Trichloroethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
79-00-5	1,1,2-Trichloroethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
75-34-3	1,1-Dichloroethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
75-35-4	1,1-Dichloroethylene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
96-18-4	1,2,3-Trichloropropane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
106-93-4	1,2-Dibromoethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
95-50-1	1,2-Dichlorobenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
107-06-2	1,2-Dichloroethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
78-87-5	1,2-Dichloropropane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
541-73-1	1,3-Dichlorobenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
106-46-7	1,4-Dichlorobenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
78-93-3	2-Butanone (MEK)	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
591-78-6	2-Hexanone	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	X
67-64-1	2-Propanone (acetone)	ND	1400	ug/kg dry	50	06/19/14	B4F1825	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
107-13-1	Acrylonitrile	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
71-43-2	Benzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
108-86-1	Bromobenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
74-97-5	Bromochloromethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
75-27-4	Bromodichloromethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
75-25-2	Bromoform	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
74-83-9	Bromomethane	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
75-15-0	Carbon disulfide	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
56-23-5	Carbon tetrachloride	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
108-90-7	Chlorobenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
75-00-3	Chloroethane	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
67-66-3	Chloroform	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
74-87-3	Chloromethane	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
110-82-7	Cyclohexane	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
124-48-1	Dibromochloromethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	

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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
75-71-8	Dichlorodifluoromethane	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
60-29-7	Diethyl ether	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
108-20-3	Diisopropyl Ether	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
100-41-4	Ethylbenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
637-92-3	Ethyltertiarybutylether	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
67-72-1	Hexachloroethane	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
98-82-8	Isopropylbenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
1330-20-7	m & p - Xylene	ND	140	ug/kg dry	50	06/19/14	B4F1825	8260	
74-88-4	Methyl iodide	ND	480	ug/kg dry	50	06/19/14	B4F1825	8260	A05, A10, Y37
75-09-2	Methylene chloride	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
1634-04-4	Methyltertiarybutylether	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
91-20-3	Naphthalene	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	X
104-51-8	n-Butylbenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
103-65-1	n-Propylbenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
95-47-6	o-Xylene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
99-87-6	p-Isopropyl toluene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
135-98-8	sec-Butylbenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
100-42-5	Styrene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
98-06-6	tert-Butylbenzene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
75-65-0	tertiary Butyl Alcohol	ND	3400	ug/kg dry	50	06/19/14	B4F1825	8260	
994-05-8	tertiaryAmylmethylether	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
127-18-4	Tetrachloroethylene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
109-99-9	Tetrahydrofuran	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
108-88-3	Toluene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	340	ug/kg dry	50	06/19/14	B4F1825	8260	
79-01-6	Trichloroethylene	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
75-69-4	Trichlorofluoromethane	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
75-01-4	Vinyl chloride	ND	69	ug/kg dry	50	06/19/14	B4F1825	8260	
Surrogate: Bromofluorobenzene			*128 %*	*50-150*		*06/19/14*	B4F1825	*8260*	
Surrogate: Dibromofluoromethane			*121 %*	*50-150*		*06/19/14*	B4F1825	*8260*	
Surrogate: Toluene-d8			*123 %*	*50-150*		*06/19/14*	B4F1825	*8260*	

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CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									**See note Y20**
91-57-6	2-Methylnaphthalene	ND	590	ug/kg dry	1	06/25/14	B4F1621	8270	
83-32-9	Acenaphthene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
208-96-8	Acenaphthylene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
120-12-7	Anthracene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
56-55-3	Benz[a]anthracene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
50-32-8	Benzo[a]pyrene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
205-99-2	Benzo[b]fluoranthene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
191-24-2	Benzo[g,h,i]perylene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
207-08-9	Benzo[k]fluoranthene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
218-01-9	Chrysene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
53-70-3	Dibenz[a,h]anthracene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
206-44-0	Fluoranthene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
86-73-7	Fluorene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
91-20-3	Naphthalene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
85-01-8	Phenanthrene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
129-00-0	Pyrene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
Surrogate: 2-Fluorobiphenyl			*73.0 %*	*32.9-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: Nitrobenzene-d5			*92.0 %*	*31.8-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: p-Terphenyl-d14			*102 %*	*38.5-115*		*06/25/14*	B4F1621	*8270*	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*103 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*86.8 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	

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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB39 1'-4'

Lab ID: 1406176-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	**% Total Solids**	**84.4**	0.1	%	1	06/16/14	B4F1610	2540 B	

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Client ID: CHLL-SB39 1'-4' DUP

Lab ID: 1406176-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
71-55-6	1,1,1-Trichloroethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
79-00-5	1,1,2-Trichloroethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
75-34-3	1,1-Dichloroethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
75-35-4	1,1-Dichloroethylene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
96-18-4	1,2,3-Trichloropropane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
106-93-4	1,2-Dibromoethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
95-50-1	1,2-Dichlorobenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
107-06-2	1,2-Dichloroethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
78-87-5	1,2-Dichloropropane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
541-73-1	1,3-Dichlorobenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
106-46-7	1,4-Dichlorobenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
78-93-3	2-Butanone (MEK)	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
591-78-6	2-Hexanone	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
91-57-6	2-Methylnaphthalene	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	X
67-64-1	2-Propanone (acetone)	ND	1600	ug/kg dry	50	06/19/14	B4F1825	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
107-13-1	Acrylonitrile	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
71-43-2	Benzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
108-86-1	Bromobenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
74-97-5	Bromochloromethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
75-27-4	Bromodichloromethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
75-25-2	Bromoform	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
74-83-9	Bromomethane	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
75-15-0	Carbon disulfide	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
56-23-5	Carbon tetrachloride	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
108-90-7	Chlorobenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
75-00-3	Chloroethane	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
67-66-3	Chloroform	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
74-87-3	Chloromethane	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
110-82-7	Cyclohexane	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
124-48-1	Dibromochloromethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	

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Client ID: CHLL-SB39 1'-4' DUP

Lab ID: 1406176-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
75-71-8	Dichlorodifluoromethane	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
60-29-7	Diethyl ether	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
108-20-3	Diisopropyl Ether	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
100-41-4	Ethylbenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
637-92-3	Ethyltertiarybutylether	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
67-72-1	Hexachloroethane	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
98-82-8	Isopropylbenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
1330-20-7	m & p - Xylene	ND	160	ug/kg dry	50	06/19/14	B4F1825	8260	
74-88-4	Methyl iodide	ND	470	ug/kg dry	50	06/19/14	B4F1825	8260	A05, A10, Y37
75-09-2	Methylene chloride	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
1634-04-4	Methyltertiarybutylether	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
91-20-3	Naphthalene	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	X
104-51-8	n-Butylbenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
103-65-1	n-Propylbenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
95-47-6	o-Xylene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
99-87-6	p-Isopropyl toluene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
135-98-8	sec-Butylbenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
100-42-5	Styrene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
98-06-6	tert-Butylbenzene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
75-65-0	tertiary Butyl Alcohol	ND	3900	ug/kg dry	50	06/19/14	B4F1825	8260	
994-05-8	tertiaryAmylmethylether	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
127-18-4	Tetrachloroethylene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
109-99-9	Tetrahydrofuran	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
108-88-3	Toluene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	
79-01-6	Trichloroethylene	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
75-69-4	Trichlorofluoromethane	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
75-01-4	Vinyl chloride	ND	78	ug/kg dry	50	06/19/14	B4F1825	8260	
Surrogate: Bromofluorobenzene			*87.6 %*	*50-150*		*06/19/14*	B4F1825	*8260*	
Surrogate: Dibromofluoromethane			*89.0 %*	*50-150*		*06/19/14*	B4F1825	*8260*	
Surrogate: Toluene-d8			*88.2 %*	*50-150*		*06/19/14*	B4F1825	*8260*	

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TEL: (517) 335-9800
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Client ID: CHLL-SB39 1'-4' DUP

Lab ID: 1406176-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									**See note Y20**
91-57-6	2-Methylnaphthalene	ND	590	ug/kg dry	1	06/25/14	B4F1621	8270	
83-32-9	Acenaphthene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
208-96-8	Acenaphthylene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
120-12-7	Anthracene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
56-55-3	Benz[a]anthracene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
50-32-8	Benzo[a]pyrene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
205-99-2	Benzo[b]fluoranthene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
191-24-2	Benzo[g,h,i]perylene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
207-08-9	Benzo[k]fluoranthene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
218-01-9	Chrysene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
53-70-3	Dibenz[a,h]anthracene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
206-44-0	Fluoranthene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
86-73-7	Fluorene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	470	ug/kg dry	1	06/25/14	B4F1621	8270	
91-20-3	Naphthalene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
85-01-8	Phenanthrene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
129-00-0	Pyrene	ND	240	ug/kg dry	1	06/25/14	B4F1621	8270	
Surrogate: 2-Fluorobiphenyl			*68.3 %*	*32.9-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: Nitrobenzene-d5			*85.3 %*	*31.8-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: p-Terphenyl-d14			*90.0 %*	*38.5-115*		*06/25/14*	B4F1621	*8270*	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	120	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*111 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*93.4 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	

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Client ID: CHLL-SB39 1'-4' DUP

Lab ID: 1406176-12

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	**% Total Solids**	**84.6**	0.1	%	1	06/16/14	B4F1610	2540 B	

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TEL: (517) 335-9800
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Client ID: CHLL-SB54 6"-18"

Lab ID: 1406176-13

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/23/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*103 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*96.4 %*	*30-150*		*06/23/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**87.3**	0.1	%	1	06/16/14	B4F1610	2540 B	
Inorganics-Metals									
7429-90-5	**Aluminium**	**3300**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**4.4**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**33**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	**Cadmium**	**0.2**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**6.8**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**3.0**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**440**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**8200**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**27**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**120**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	Mercury	ND	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**6.9**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**0.2**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**34**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	

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TEL: (517) 335-9800
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Client ID: CHLL-SB40 6"-12"

Lab ID: 1406176-14

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*98.2 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*92.8 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**89.2**	0.1	%	1	06/16/14	B4F1610	2540 B	
Inorganics-Metals									
7429-90-5	**Aluminium**	**5300**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**5.0**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**32**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.4**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**10**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**4.2**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**530**	100	mg/kg dry	1000	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**11000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**26**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**180**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	Mercury	ND	0.06	mg/kg dry	1	06/27/14	B4F2520	7471/245.5	
7440-02-0	**Nickel**	**9.2**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**0.4**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**36**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	

STATE OF MICHIGAN
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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB40 1'-4'

Lab ID: 1406176-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
71-55-6	1,1,1-Trichloroethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
79-00-5	1,1,2-Trichloroethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
75-34-3	1,1-Dichloroethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
75-35-4	1,1-Dichloroethylene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
96-18-4	1,2,3-Trichloropropane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
106-93-4	1,2-Dibromoethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
95-50-1	1,2-Dichlorobenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
107-06-2	1,2-Dichloroethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
78-87-5	1,2-Dichloropropane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
541-73-1	1,3-Dichlorobenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
106-46-7	1,4-Dichlorobenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
78-93-3	2-Butanone (MEK)	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
591-78-6	2-Hexanone	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
91-57-6	2-Methylnaphthalene	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	X
67-64-1	2-Propanone (acetone)	ND	1100	ug/kg dry	50	06/19/14	B4F1825	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
107-13-1	Acrylonitrile	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
71-43-2	Benzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
108-86-1	Bromobenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
74-97-5	Bromochloromethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
75-27-4	Bromodichloromethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
75-25-2	Bromoform	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
74-83-9	Bromomethane	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
75-15-0	Carbon disulfide	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
56-23-5	Carbon tetrachloride	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
108-90-7	Chlorobenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
75-00-3	Chloroethane	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
67-66-3	Chloroform	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
74-87-3	Chloromethane	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
110-82-7	Cyclohexane	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
124-48-1	Dibromochloromethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	

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Client ID: CHLL-SB40 1'-4'

Lab ID: 1406176-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
75-71-8	Dichlorodifluoromethane	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
60-29-7	Diethyl ether	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
108-20-3	Diisopropyl Ether	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
100-41-4	Ethylbenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
637-92-3	Ethyltertiarybutylether	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
67-72-1	Hexachloroethane	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
98-82-8	Isopropylbenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
1330-20-7	m & p - Xylene	ND	110	ug/kg dry	50	06/19/14	B4F1825	8260	
74-88-4	Methyl iodide	ND	390	ug/kg dry	50	06/19/14	B4F1825	8260	A05, A10, Y37
75-09-2	Methylene chloride	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
1634-04-4	Methyltertiarybutylether	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
91-20-3	Naphthalene	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	X
104-51-8	n-Butylbenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
103-65-1	n-Propylbenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
95-47-6	o-Xylene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
99-87-6	p-Isopropyl toluene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
135-98-8	sec-Butylbenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
100-42-5	Styrene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
98-06-6	tert-Butylbenzene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
75-65-0	tertiary Butyl Alcohol	ND	2800	ug/kg dry	50	06/19/14	B4F1825	8260	
994-05-8	tertiaryAmylmethylether	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
127-18-4	Tetrachloroethylene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
109-99-9	Tetrahydrofuran	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
108-88-3	**Toluene**	**70**	55	ug/kg dry	50	06/19/14	B4F1825	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	280	ug/kg dry	50	06/19/14	B4F1825	8260	
79-01-6	Trichloroethylene	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
75-69-4	Trichlorofluoromethane	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
75-01-4	Vinyl chloride	ND	55	ug/kg dry	50	06/19/14	B4F1825	8260	
Surrogate: Bromofluorobenzene			*140 %*	*50-150*		*06/19/14*	B4F1825	*8260*	
Surrogate: Dibromofluoromethane			*134 %*	*50-150*		*06/19/14*	B4F1825	*8260*	
Surrogate: Toluene-d8			*138 %*	*50-150*		*06/19/14*	B4F1825	*8260*	

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ENVIRONMENTAL LABORATORY

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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB40 1'-4'

Lab ID: 1406176-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									**See note Y20**
91-57-6	2-Methylnaphthalene	ND	540	ug/kg dry	1	06/25/14	B4F1621	8270	
83-32-9	Acenaphthene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
208-96-8	Acenaphthylene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
120-12-7	Anthracene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
56-55-3	Benz[a]anthracene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
50-32-8	Benzo[a]pyrene	ND	430	ug/kg dry	1	06/25/14	B4F1621	8270	
205-99-2	Benzo[b]fluoranthene	ND	430	ug/kg dry	1	06/25/14	B4F1621	8270	
191-24-2	Benzo[g,h,i]perylene	ND	430	ug/kg dry	1	06/25/14	B4F1621	8270	
207-08-9	Benzo[k]fluoranthene	ND	430	ug/kg dry	1	06/25/14	B4F1621	8270	
218-01-9	Chrysene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
53-70-3	Dibenz[a,h]anthracene	ND	430	ug/kg dry	1	06/25/14	B4F1621	8270	
206-44-0	Fluoranthene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
86-73-7	Fluorene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	430	ug/kg dry	1	06/25/14	B4F1621	8270	
91-20-3	Naphthalene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
85-01-8	Phenanthrene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
129-00-0	Pyrene	ND	220	ug/kg dry	1	06/25/14	B4F1621	8270	
Surrogate: 2-Fluorobiphenyl			*65.5 %*	*32.9-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: Nitrobenzene-d5			*82.6 %*	*31.8-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: p-Terphenyl-d14			*92.4 %*	*38.5-115*		*06/25/14*	B4F1621	*8270*	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*99.1 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*81.9 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	

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Client ID: CHLL-SB40 1'-4'

Lab ID: 1406176-15

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	**% Total Solids**	**92.8**	0.1	%	1	06/16/14	B4F1610	2540 B	

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P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB41 6"-12"

Lab ID: 1406176-16

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	110	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*90.2 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*88.6 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Inorganics-General Chemistry									
TS	**% Total Solids**	**90.0**	0.1	%	1	06/16/14	B4F1610	2540 B	
Inorganics-Metals									
7429-90-5	**Aluminium**	**9900**	100	mg/kg dry	1000	07/02/14	B4F1903	6020/200.8	
7440-36-0	Antimony	ND	0.3	mg/kg dry	10	07/01/14	B4F1913	6020/200.8	
7440-38-2	**Arsenic**	**4.5**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-39-3	**Barium**	**21**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-41-7	**Beryllium**	**0.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-43-9	Cadmium	ND	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-47-3	**Chromium**	**21**	2.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-48-4	**Cobalt**	**9.4**	0.5	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-50-8	**Copper**	**630**	100	mg/kg dry	1000	07/01/14	B4F1903	6020/200.8	
7439-89-6	**Iron**	**14000**	5.0	mg/kg dry	10	06/27/14	B4F1903	6010/200.7	A09
7439-92-1	**Lead**	**15**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-96-5	**Manganese**	**260**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7439-97-6	Mercury	ND	0.06	mg/kg dry	1	07/02/14	B4F3014	7471/245.5	
7440-02-0	**Nickel**	**21**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7782-49-2	**Selenium**	**0.3**	0.2	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-22-4	**Silver**	**1.0**	0.1	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	
7440-66-6	**Zinc**	**43**	1.0	mg/kg dry	10	07/01/14	B4F1903	6020/200.8	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: CHLL-SB41 1'-4'

Lab ID: 1406176-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
630-20-6	1,1,1,2-Tetrachloroethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
71-55-6	1,1,1-Trichloroethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
79-34-5	1,1,2,2-Tetrachloroethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
79-00-5	1,1,2-Trichloroethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
75-34-3	1,1-Dichloroethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
75-35-4	1,1-Dichloroethylene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
87-61-6	1,2,3-Trichlorobenzene	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
96-18-4	1,2,3-Trichloropropane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
526-73-8	1,2,3-Trimethylbenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
120-82-1	1,2,4-Trichlorobenzene	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
95-63-6	1,2,4-Trimethylbenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
96-12-8	1,2-Dibromo-3-chloropropane	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
106-93-4	1,2-Dibromoethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
95-50-1	1,2-Dichlorobenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
107-06-2	1,2-Dichloroethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
78-87-5	1,2-Dichloropropane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
108-67-8	1,3,5-Trimethylbenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
541-73-1	1,3-Dichlorobenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
106-46-7	1,4-Dichlorobenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
78-93-3	2-Butanone (MEK)	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
591-78-6	2-Hexanone	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
91-57-6	2-Methylnaphthalene	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	X
67-64-1	2-Propanone (acetone)	ND	1600	ug/kg dry	50	06/19/14	B4F1825	8260	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
107-13-1	Acrylonitrile	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
71-43-2	Benzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
108-86-1	Bromobenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
74-97-5	Bromochloromethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
75-27-4	Bromodichloromethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
75-25-2	Bromoform	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
74-83-9	Bromomethane	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
75-15-0	Carbon disulfide	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
56-23-5	Carbon tetrachloride	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
108-90-7	Chlorobenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
75-00-3	Chloroethane	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
67-66-3	Chloroform	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
74-87-3	Chloromethane	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
156-59-2	cis-1,2-Dichloroethylene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
10061-01-5	cis-1,3-Dichloropropylene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
110-82-7	Cyclohexane	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
124-48-1	Dibromochloromethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	

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Client ID: CHLL-SB41 1'-4'

Lab ID: 1406176-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Volatiles									
74-95-3	Dibromomethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
75-71-8	Dichlorodifluoromethane	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
60-29-7	Diethyl ether	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
108-20-3	Diisopropyl Ether	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
100-41-4	Ethylbenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
637-92-3	Ethyltertiarybutylether	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
67-72-1	Hexachloroethane	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
98-82-8	Isopropylbenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
1330-20-7	m & p - Xylene	ND	160	ug/kg dry	50	06/19/14	B4F1825	8260	
74-88-4	Methyl iodide	ND	560	ug/kg dry	50	06/19/14	B4F1825	8260	A05, A10, Y37
75-09-2	Methylene chloride	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
1634-04-4	Methyltertiarybutylether	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
91-20-3	Naphthalene	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	X
104-51-8	n-Butylbenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
103-65-1	n-Propylbenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
95-47-6	o-Xylene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
99-87-6	p-Isopropyl toluene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
135-98-8	sec-Butylbenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
100-42-5	Styrene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
98-06-6	tert-Butylbenzene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
75-65-0	tertiary Butyl Alcohol	ND	4000	ug/kg dry	50	06/19/14	B4F1825	8260	
994-05-8	tertiaryAmylmethylether	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
127-18-4	Tetrachloroethylene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
109-99-9	Tetrahydrofuran	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
108-88-3	Toluene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
156-60-5	trans-1,2-Dichloroethylene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
10061-02-6	trans-1,3-Dichloropropylene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
110-57-6	trans-1,4-Dichloro-2-butene	ND	400	ug/kg dry	50	06/19/14	B4F1825	8260	
79-01-6	Trichloroethylene	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
75-69-4	Trichlorofluoromethane	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
75-01-4	Vinyl chloride	ND	80	ug/kg dry	50	06/19/14	B4F1825	8260	
Surrogate: Bromofluorobenzene			*162 %*	*50-150*		*06/19/14*	B4F1825	*8260*	
Surrogate: Dibromofluoromethane			*152 %*	*50-150*		*06/19/14*	B4F1825	*8260*	
Surrogate: Toluene-d8			*159 %*	*50-150*		*06/19/14*	B4F1825	*8260*	

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Client ID: CHLL-SB41 1'-4'

Lab ID: 1406176-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Organics-Semivolatiles									**See note Y20**
91-57-6	2-Methylnaphthalene	ND	630	ug/kg dry	1	06/25/14	B4F1621	8270	
83-32-9	Acenaphthene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
208-96-8	Acenaphthylene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
120-12-7	Anthracene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
56-55-3	Benz[a]anthracene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
50-32-8	Benzo[a]pyrene	ND	510	ug/kg dry	1	06/25/14	B4F1621	8270	
205-99-2	Benzo[b]fluoranthene	ND	510	ug/kg dry	1	06/25/14	B4F1621	8270	
191-24-2	Benzo[g,h,i]perylene	ND	510	ug/kg dry	1	06/25/14	B4F1621	8270	
207-08-9	Benzo[k]fluoranthene	ND	510	ug/kg dry	1	06/25/14	B4F1621	8270	
218-01-9	Chrysene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
53-70-3	Dibenz[a,h]anthracene	ND	510	ug/kg dry	1	06/25/14	B4F1621	8270	
206-44-0	Fluoranthene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
86-73-7	Fluorene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	510	ug/kg dry	1	06/25/14	B4F1621	8270	
91-20-3	Naphthalene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
85-01-8	Phenanthrene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
129-00-0	Pyrene	ND	250	ug/kg dry	1	06/25/14	B4F1621	8270	
Surrogate: 2-Fluorobiphenyl			*70.4 %*	*32.9-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: Nitrobenzene-d5			*82.6 %*	*31.8-115*		*06/25/14*	B4F1621	*8270*	
Surrogate: p-Terphenyl-d14			*95.6 %*	*38.5-115*		*06/25/14*	B4F1621	*8270*	
Organics-PCBs as Aroclors									
12674-11-2	Aroclor 1016	ND	130	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11104-28-2	Aroclor 1221	ND	130	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11141-16-5	Aroclor 1232	ND	130	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
53469-21-9	Aroclor 1242	ND	130	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
12672-29-6	Aroclor 1248	ND	130	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11097-69-1	Aroclor 1254	ND	130	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11096-82-5	Aroclor 1260	ND	130	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
37324-23-5	Aroclor 1262	ND	130	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
11100-14-4	Aroclor 1268	ND	130	ug/kg dry	1	06/24/14	B4F1720	8081/8082	
Surrogate: Decachlorobiphenyl			*93.5 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	
Surrogate: Tetrachloro-m-xylene			*85.3 %*	*30-150*		*06/24/14*	B4F1720	*8081/8082*	

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ENVIRONMENTAL LABORATORY

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TEL: (517) 335-9800
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Client ID: CHLL-SB41 1'-4'

Lab ID: 1406176-17

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Qualifier
Inorganics-General Chemistry									
TS	**% Total Solids**	**79.0**	0.1	%	1	06/16/14	B4F1611	2540 B	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Page_____ of_____

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406176	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Keranena@michigan.gov		Contract Firm: Weston Solutions
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: Jeff Binkley
State Project Manager Phone: S17-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-SB 52 0-6"	6-11-14	4:00p		
2	02	CHLL-SB 52 6"-4'	6-11-14	4:05p		
3	03	CHLL-SB 32 0-6"	6-11-14	5:00p		
4	04	CHLL-SB 32 6"-4'	6-11-14	5:00p		
5	05	CHLL-SB 31 0-6"	6-11-14	5:35p		
6	06	CHLL-SB 31 6"-4'	6-11-14	5:35p		
7	07	CHLL-SB 53 6"-12"	6-12-14	8:37a		
8	08	CHLL-SB 38 6"-12"	6-12-14	9:00a		
9	09	CHLL-SB 38 1'-4'	6-12-14	9:05a		
10	10	CHLL-SB 39 6"-12"	6-12-14	9:30a		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

Relinquished by	Received By	Date / Time
Print Name & Org.: Jeff Pincumbe - MDEQ	Dan Peabody MDEQ	
Signature:		6/12/14 1100
Print Name & Org.: Dan Peabody MDEQ	Joshua Pung MDEQ	
Signature:	Joshua R Pung	6/13/14 1001
Print Name & Org.:		
Signature:		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406176	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Keranena@michigan.gov		Contract Firm: weston solutions
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1: ALS for hex chromium	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: Jeff Binkley
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906 523 5451

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	11	CHLL-SB 39 1'-4'	6-12-14	9:35		
2	12	CHLL-SB 39 1'-4' dup	6-12-14	9:35		
3	13	CHLL-SB 54 6"-18"	6-12-14	9:50		add hexavalent chromium
4	14	CHLL-SB 40 6"-12"	6-12-14	10:10		
5	15	CHLL-SB 40 1'-4'	6-12-14	10:15		
6	16	CHLL-5B 41 6"-12"	6-12-14	10:18		
7	17	CHLL-SB 41 1'-4'	6-12-14	1:20		
8		CHLL-SB				
9		CHLL-SB				
10		CHLL-SB				

ORGANIC CHEMISTRY

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Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
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Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

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Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

Cr +6 > 3 → to ALS

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Dan Peabody MDEQ	6/12/14 1105
Signature:	Jeff Pincumbe	Dan Peabody	
Print Name & Org.	Dan Peabody MDEQ	Joshua Pung MDEQ	6/13/14 1001
Signature:	Dan Peabody	Joshua R Pung	
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909O
TEL: (517) 335-9800O
FAX: (517) 335-9600O

11 July 2014O

Work Order: 1406231O

Price: $8,653.00O

Jeff PincumbeO
MDEQ-RRD-LANSINGO
525 W. Allegan StreetO
Lansing, MI 48909O

RE: ABANDONED MINING WASTE-TORCH LAKE PCBO

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods O approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.O

Sincerely, O

George KrisztianO
Laboratory DirectorO

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

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MDEQ-RRD-LANSINGb
525 W. Allegan Streetb
Lansing MI, 48909b

Project:bABANDONED MINING WASTE-TORCH LAKE PCBb
Site Code:b31000098b
Project Manager:bJeff Pincumbeb

Reported:p
07/11/2014b

Analytical Report for Samplesp

Sample IDp	Laboratory IDp	Matrixp	Date Sampledp	Date Receivedp	Qualifierp
CHLL-SB 42 6"-12"b	1406231-01b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 42 1'-3'b	1406231-02b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 43 6-12"b	1406231-03b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 44 2"-12"b	1406231-04b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 44 2"-12" dupb	1406231-05b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 45 0"-8"b	1406231-06	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 46 6-12"b	1406231-07b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 47 0-6"b	1406231-08b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 47 6"-30"b	1406231-09b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 48 0-6"b	1406231-10b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 48 6-48"b	1406231-11b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 49 0-6"b	1406231-12b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 49 1-6'b	1406231-13b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 49 1-6' Dupb	1406231-14b	Soil/Sedimentb	06/12/2014b	06/18/2014b	
CHLL-SB 30 0-6"b	1406231-15b	Soil/Sedimentb	06/13/2014b	06/18/2014b	
CHLL-SB 30 6"-12"b	1406231-16	Soil/Sedimentb	06/13/2014b	06/18/2014b	
CHLL-SB 27 0"-6"b	1406231-17b	Soil/Sedimentb	06/13/2014b	06/18/2014b	
CHLL-SB 27 24"-30"b	1406231-18b	Soil/Sedimentb	06/13/2014b	06/18/2014b	
CHLL-SB 26 0"-6"b	1406231-19b	Soil/Sedimentb	06/13/2014b	06/18/2014b	
CHLL-SB 26 6"-30"b	1406231-20b	Soil/Sedimentb	06/13/2014b	06/18/2014b	

Lab Work Order # 1406231b

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Notes and Definitions p

Y21b	Reporting Limits (RL) raised due to matrix interference.b
Y20b	Reporting Limits (RL) raised due to matrix.b
X3b	Spike recovery is not applicable due to large target analyte concentration in the source sample.b
Xb	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 ºC. 2-Methylnaphthalene & naphthalene b have boiling points above 200 ºC and are better suited to analysis by methods 8270 & 625 as semivolatile organics.b
Tb	Reported value is less than the reporting limit (RL). Result is estimated.b
A11b	Result is estimated due to high initial verification standard criteria failure.b
A09b	Result is estimated due to high recovery of batch quality control. b
A06	Result is estimated due to high continuing calibration standard criteria failure. b
A04b	Result is estimated due to high matrix spike recovery. b
A03b	Result(s) and reporting limit(s) are estimated due to low matrix spike recovery. b
NDb	Indicates compound analyzed for but not detected b
RLb	Reporting Limit b
NAb	Not Applicable b
dry	Sample results reported on a dry weight basis b

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P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-SB 42 6''-12''p

Lab ID: 1406231-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*57.8 %-*	*30-150-*		*07/02/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*67.9 %-*	*30-150-*		*07/02/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**88.3p**	0.1b	%b	1b	06/19/14b	B4F1909b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**10000p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**3.4p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**34p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**28p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**12p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**1100p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**17000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**40p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**280p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**20p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.4p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**67p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-SB 42 1'-3'p

Lab ID: 1406231-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	140b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	140b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	140b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	140b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	140b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	140b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	140b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	140b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	140b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*73.8 %-*	*30-150-*		*07/02/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*78.6 %-*	*30-150-*		*07/02/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**70.2p**	0.1b	%b	1b	06/19/14b	B4F1909b	2540 Bb	

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Client ID: CHLL-SB 43 6-12"p

Lab ID: 1406231-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*61.0 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*66.4 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**91.0p**	0.1b	%b	1b	06/19/14b	B4F1909b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**9500p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**3.8p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**60p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.2p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**39p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**10p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**1600p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**16000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**66p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**270p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**19p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.4p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**66p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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Client ID: CHLL-SB 44 2''-12''p

Lab ID: 1406231-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
591-78-6	2-Hexanoneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1400b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
107-13-1b	Acrylonitrileb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
71-43-2b	Benzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-86-1b	Bromobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-97-5b	Bromochloromethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-25-2b	Bromoformb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-83-9b	Bromomethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-15-0b	Carbon disulfideb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-90-7b	Chlorobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-00-3b	Chloroethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
67-66-3b	Chloroformb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-87-3b	Chloromethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
110-82-7b	Cyclohexaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	

Lab Work Order # 1406231b

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Client ID: CHLL-SB 44 2''-12''p

Lab ID: 1406231-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
60-29-7b	Diethyl etherb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
100-41-4b	Ethylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
67-72-1b	Hexachloroethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	140b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-88-4b	Methyl iodideb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-09-2b	Methylene chlorideb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
91-20-3b	Naphthaleneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-47-6	o-Xyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
100-42-5b	Styreneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3600b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-88-3b	Tolueneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-01-6	Trichloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-01-4b	Vinyl chlorideb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
Surrogate: Bromofluorobenzene-			*77.9 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	
Surrogate: Dibromofluoromethane-			*78.8 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	
Surrogate: Toluene-d8-			*78.0 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	

Lab Work Order # 1406231b

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CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	610b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
83-32-9b	Acenaphthene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
208-96-8b	Acenaphthylene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
120-12-7b	Anthracene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
56-55-3b	**Benz[a]anthracene**	**220p**	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	Tb
50-32-8b	Benzo[a]pyrene	NDb	490b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	490b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	490b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	490b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
218-01-9b	**Chrysene**	**300p**	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	490b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
206-44-0b	**Fluoranthene**	**450p**	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
86-73-7b	Fluorene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	490b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
91-20-3b	Naphthalene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
85-01-8b	**Phenanthrene**	**280p**	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
129-00-0b	**Pyrene**	**320p**	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*57.1 %-*	*32.9-115-*		*06/28/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*67.2 %-*	*31.8-115-*		*06/28/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*55.9 %-*	*38.5-115-*		*06/28/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*66.0 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*68.5 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	

Lab Work Order # 1406231b

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CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**82.3p**	0.1b	%b	1b	06/19/14b	B4F1909b	2540 Bb	
57-12-5b	**Total Cyanidep**	**0.14p**	0.12b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6400p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.8p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**42p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**15p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**6.1p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**480p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**10000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**56p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**150p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**13p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.3p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**51p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
591-78-6	2-Hexanoneb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1600b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
107-13-1b	Acrylonitrileb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
71-43-2b	Benzeneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-86-1b	Bromobenzeneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-97-5b	Bromochloromethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-25-2b	Bromoformb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-83-9b	Bromomethaneb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-15-0b	Carbon disulfideb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-90-7b	Chlorobenzeneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-00-3b	Chloroethaneb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
67-66-3b	Chloroformb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-87-3b	Chloromethaneb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
110-82-7b	Cyclohexaneb	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	

Lab Work Order # 1406231b

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Client ID: CHLL-SB 44 2"-12" dup

Lab ID: 1406231-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
60-29-7b	Diethyl ether	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-20-3b	Diisopropyl Ether	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
100-41-4b	Ethylbenzene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
67-72-1b	Hexachloroethane	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
98-82-8b	Isopropylbenzene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
1330-20-7b	m & p - Xylene	NDb	160b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-88-4b	Methyl iodide	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-09-2b	Methylene chloride	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
91-20-3b	Naphthalene	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
103-65-1b	n-Propylbenzene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-47-6	o-Xylene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
99-87-6	p-Isopropyl toluene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
135-98-8b	sec-Butylbenzene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
100-42-5b	Styrene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
98-06-6	tert-Butylbenzene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	4100b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
127-18-4b	Tetrachloroethylene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
109-99-9b	Tetrahydrofuran	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-88-3b	Toluene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	410b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-01-6	Trichloroethylene	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-01-4b	Vinyl chloride	NDb	82b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
Surrogate: Bromofluorobenzene-			*108 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	
Surrogate: Dibromofluoromethane-			*110 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	
Surrogate: Toluene-d8-			*109 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	

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Client ID: CHLL-SB 44 2"-12" dup

Lab ID: 1406231-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	640b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
83-32-9b	Acenaphtheneb	NDb	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
208-96-8b	Acenaphthyleneb	NDb	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
120-12-7b	Anthraceneb	NDb	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
56-55-3b	**Benz[a]anthracenep**	**170p**	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	Tb
50-32-8b	Benzo[a]pyreneb	NDb	510b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
205-99-2b	Benzo[b]fluoranthenebb	NDb	510b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	510b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluoranthenebb	NDb	510b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
218-01-9b	**Chrysenep**	**220p**	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	Tb
53-70-3b	Dibenz[a,h]anthraceneb	NDb	510b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
206-44-0b	**Fluoranthenep**	**380p**	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
86-73-7b	Fluoreneb	NDb	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	510b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
91-20-3b	Naphthaleneb	NDb	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
85-01-8b	**Phenanthrenep**	**160p**	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	Tb
129-00-0b	**Pyrenep**	**270p**	250b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*43.3 %-*	*32.9-115-*		*06/28/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*50.9 %-*	*31.8-115-*		*06/28/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*47.3 %-*	*38.5-115-*		*06/28/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	130b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	130b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	130b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	130b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	130b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	130b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	130b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	130b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	130b	ug/kg dryb	1b	07/02/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*55.8 %-*	*30-150-*		*07/02/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*63.2 %-*	*30-150-*		*07/02/14-*	B4F2717b	*8081/8082-*	

Lab Work Order # 1406231b

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Client ID: CHLL-SB 44 2''-12'' dup

Lab ID: 1406231-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**78.6p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.13b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**9300p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**3.0p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**56p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**22p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.8p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**670p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**13000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**54p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**200p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**18p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.2p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.7p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**66p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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Client ID: CHLL-SB 45 0''-8''p

Lab ID: 1406231-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*65.9 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*70.5 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**83.3p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	**Total Cyanidep**	**0.71p**	0.12b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**14000p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	**Antimonyp**	**0.3p**	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**5.8p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**70p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.5p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.4p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**43p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**16p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**1700p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**24000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**160p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**410p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**29p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.4p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.9p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**230p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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Client ID: CHLL-SB 46 6-12"p

Lab ID: 1406231-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	160b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	160b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	160b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	160b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	160b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	160b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	160b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	160b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	160b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*57.6 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*69.6 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**64.2p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	**Total Cyanidep**	**0.21p**	0.16	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**9200p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	**Antimonyp**	**3.4p**	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**34p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**360p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**1.2p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	**Cadmiump**	**1.7p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**29p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**7.3p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**1600p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**52000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**530p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**12000p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.3p**	0.08b	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**18p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	**Seleniump**	**4.1p**	2.0b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.9p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**1300p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	

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Client ID: CHLL-SB 47 0-6''p

Lab ID: 1406231-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*64.8 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*78.4 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**80.4p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**9700p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	**Antimonyp**	**0.4p**	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**5.2p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**72p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.7p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.8p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**25p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**12p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**1300p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**15000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**130p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**300p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**25p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.3p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.8p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**180p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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Client ID: CHLL-SB 47 6''-30''p

Lab ID: 1406231-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
591-78-6	2-Hexanoneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1400b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
107-13-1b	Acrylonitrileb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
71-43-2b	Benzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-86-1b	Bromobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-97-5b	Bromochloromethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-25-2b	Bromoformb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-83-9b	Bromomethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-15-0b	Carbon disulfideb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-90-7b	Chlorobenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-00-3b	Chloroethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
67-66-3b	Chloroformb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-87-3b	Chloromethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
110-82-7b	Cyclohexaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	

Lab Work Order # 1406231b

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Client ID: CHLL-SB 47 6''-30''p

Lab ID: 1406231-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
60-29-7b	Diethyl etherb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
100-41-4b	Ethylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
67-72-1b	Hexachloroethaneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	140b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-88-4b	Methyl iodideb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-09-2b	Methylene chlorideb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
91-20-3b	Naphthaleneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-47-6	o-Xyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
100-42-5b	Styreneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3600b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-88-3b	Tolueneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	360b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-01-6	Trichloroethyleneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-01-4b	Vinyl chlorideb	NDb	72b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
Surrogate: Bromofluorobenzene-			*128 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	
Surrogate: Dibromofluoromethane-			*129 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	
Surrogate: Toluene-d8-			*126 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	

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Client ID: CHLL-SB 47 6''-30''p

Lab ID: 1406231-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	600b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
83-32-9b	Acenaphthene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
208-96-8b	Acenaphthylene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
120-12-7b	Anthracene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
56-55-3b	Benz[a]anthracene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	480b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	480b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	480b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	480b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
218-01-9b	**Chrysene**	**250p**	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	480b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
206-44-0b	**Fluoranthene**	**450p**	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
86-73-7b	Fluorene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	480b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
91-20-3b	Naphthalene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
85-01-8b	Phenanthrene	NDb	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
129-00-0b	**Pyrene**	**370p**	240b	ug/kg dryb	1b	06/28/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*52.3 %-*	*32.9-115-*		*06/28/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*63.9 %-*	*31.8-115-*		*06/28/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*56.2 %-*	*38.5-115-*		*06/28/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*64.2 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*71.1 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	

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Client ID: CHLL-SB 47 6''-30''p

Lab ID: 1406231-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**83.7p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	

Lab Work Order # 1406231b

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Client ID: CHLL-SB 48 0-6''p

Lab ID: 1406231-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*52.2 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*81.3 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**88.5p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**9800p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.4p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**30p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.3p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**27p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**13p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**620p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**27000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**39p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**270p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**27p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.9p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**110p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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Client ID: CHLL-SB 48 6-48"p

Lab ID: 1406231-11p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
591-78-6	2-Hexanoneb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1400b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
107-13-1b	Acrylonitrileb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
71-43-2b	Benzeneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-86-1b	Bromobenzeneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-97-5b	Bromochloromethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-25-2b	Bromoformb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-83-9b	Bromomethaneb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-15-0b	Carbon disulfideb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-90-7b	Chlorobenzeneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-00-3b	Chloroethaneb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
67-66-3b	Chloroformb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-87-3b	Chloromethaneb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
110-82-7b	Cyclohexaneb	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	

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Client ID: CHLL-SB 48 6-48"p

Lab ID: 1406231-11p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
60-29-7b	Diethyl ether	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-20-3b	Diisopropyl Ether	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
100-41-4b	Ethylbenzene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
67-72-1b	Hexachloroethane	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
98-82-8b	Isopropylbenzene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
1330-20-7b	m & p - Xylene	NDb	140b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
74-88-4b	Methyl iodide	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-09-2b	Methylene chloride	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
91-20-3b	Naphthalene	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
103-65-1b	n-Propylbenzene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
95-47-6	o-Xylene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
99-87-6	p-Isopropyl toluene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
135-98-8b	sec-Butylbenzene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
100-42-5b	Styrene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
98-06-6	tert-Butylbenzene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	3500b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
127-18-4b	Tetrachloroethylene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
109-99-9b	Tetrahydrofuran	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
108-88-3b	Toluene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	350b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
79-01-6	Trichloroethylene	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
75-01-4b	Vinyl chloride	NDb	69b	ug/kg dryb	50b	06/20/14b	B4F2005b	8260b	
Surrogate: Bromofluorobenzene-			*134 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	
Surrogate: Dibromofluoromethane-			*132 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	
Surrogate: Toluene-d8-			*130 %-*	*50-150-*		*06/20/14-*	B4F2005b	*8260-*	

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Client ID: CHLL-SB 48 6-48"p

Lab ID: 1406231-11p

CAS #b	Analyte	Resultb	RLb	Unitsb	Dilution	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	600b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
83-32-9b	Acenaphthene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
208-96-8b	Acenaphthylene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
120-12-7b	Anthracene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
56-55-3b	Benz[a]anthracene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	480b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	480b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	480b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	480b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
218-01-9b	Chrysene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	480b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
206-44-0b	**Fluoranthene**	**240p**	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
86-73-7b	Fluorene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	480b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
91-20-3b	Naphthalene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
85-01-8b	Phenanthrene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
129-00-0b	Pyrene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*70.5 %-*	*32.9-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*81.0 %-*	*31.8-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*78.9 %-*	*38.5-115-*		*06/30/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*59.1 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*68.5 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	

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Client ID: CHLL-SB 48 6-48''p

Lab ID: 1406231-11p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**83.0p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	

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Client ID: CHLL-SB 49 0-6''p

Lab ID: 1406231-12p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note Y21p**
12674-11-2b	Aroclor 1016	NDb	220b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	220b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	220b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	220b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	220b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	2200b	ug/kg dryb	10b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	2200b	ug/kg dryb	10b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	2200b	ug/kg dryb	10b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	2200b	ug/kg dryb	10b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*111 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*82.9 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**89.5p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6900p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**11p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**30p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.3p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**13p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**6.0p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**3900p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**10000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**11p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**170p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**16p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.9p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**30p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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Client ID: CHLL-SB 49 1-6'p

Lab ID: 1406231-13p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	580b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
83-32-9b	Acenaphtheneb	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
208-96-8b	Acenaphthyleneb	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
120-12-7b	Anthraceneb	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
205-99-2b	Benzo[b]fluorantheneb	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluorantheneb	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
218-01-9b	Chryseneb	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
206-44-0b	**Fluoranthenep**	**210p**	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	Tb
86-73-7b	Fluoreneb	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
91-20-3b	Naphthaleneb	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
85-01-8b	Phenanthreneb	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
129-00-0b	**Pyrenep**	**160p**	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	Tb
Surrogate: 2-Fluorobiphenyl-			*67.7 %-*	*32.9-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*79.3 %-*	*31.8-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*80.5 %-*	*38.5-115-*		*06/30/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*58.7 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*76.1 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	

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Client ID: CHLL-SB 49 1-6'p

Lab ID: 1406231-13p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**85.5p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	

Lab Work Order # 1406231b

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Client ID: CHLL-SB 49 1-6' Dup

Lab ID: 1406231-14p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	590b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
83-32-9b	Acenaphthene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
208-96-8b	Acenaphthylene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
120-12-7b	Anthracene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
56-55-3b	Benz[a]anthracene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
218-01-9b	Chrysene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
206-44-0b	**Fluoranthene**	**360p**	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
86-73-7b	Fluorene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
91-20-3b	Naphthalene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
85-01-8b	Phenanthrene	NDb	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
129-00-0b	**Pyrene**	**260p**	240b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*65.6 %-*	*32.9-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*76.4 %-*	*31.8-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*72.2 %-*	*38.5-115-*		*06/30/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	120b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*58.8 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*69.0 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	

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Client ID: CHLL-SB 49 1-6' Dup

Lab ID: 1406231-14p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**84.9p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	

Lab Work Order # 1406231b

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Client ID: CHLL-SB 30 0-6''p

Lab ID: 1406231-15p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*55.5 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*64.1 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**87.5p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**22000p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**32p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**26p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.5p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**46p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**22p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**100p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**46000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**34p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**430p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**77p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	**Seleniump**	**2.0p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**2.9p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**48p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-SB 30 6''-12''p

Lab ID: 1406231-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*67.5 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*68.8 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**95.2p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**36000p**	1000b	mg/kg dryb	10000b	07/07/14b	B4F2301b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/07/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**28p**	5.0b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**710p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**2.4p**	2.0b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**130p**	20b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**24p**	5.0b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**6200p**	1000b	mg/kg dryb	10000b	07/07/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**110000p**	50b	mg/kg dryb	100b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	Leadb	NDb	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**890p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**69p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7782-49-2b	**Seleniump**	**2.6p**	2.0b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**1.0p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**240p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	

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TEL: (517) 335-9800O
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Client ID: CHLL-SB 27 0''-6''p

Lab ID: 1406231-17p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note Y21p**
12674-11-2b	Aroclor 1016	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*72.5 %-*	*30-150-*		*07/07/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*84.4 %-*	*30-150-*		*07/07/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**85.6p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**4400p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	**Antimonyp**	**0.8p**	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**6.4p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**59p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**14p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**6.7p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**1000p**	10b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**10000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**70p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**120p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.06p**	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**13p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	2.0b	mg/kg dryb	100b	07/03/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**0.5p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**92p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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TEL: (517) 335-9800O
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Client ID: CHLL-SB 27 24''-30''p

Lab ID: 1406231-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/03/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*69.2 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*73.2 %-*	*30-150-*		*07/03/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**87.0p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**680p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	Arsenicb	NDb	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**17p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	Chromiumb	NDb	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**130p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**2700p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**2.3p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**23p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	Nickelb	NDb	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**8.1p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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Client ID: CHLL-SB 26 0''-6''p

Lab ID: 1406231-19p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note Y21p**
12674-11-2b	Aroclor 1016	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	1200b	ug/kg dryb	10b	07/07/14b	B4F2717b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*81.3 %-*	*30-150-*		*07/07/14-*	B4F2717b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*85.8 %-*	*30-150-*		*07/07/14-*	B4F2717b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**86.7p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**3300p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	**Antimonyp**	**0.6p**	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**12p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**55p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.5p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.4p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**8.8p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**3.7p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**2100p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**8000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**400p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**100p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.08p**	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**9.0p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	**Seleniump**	**1.2p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**1.2p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**73p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

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Client ID: CHLL-SB 26 6''-30''p

Lab ID: 1406231-20p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/04/14b	B4F3022b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	120b	ug/kg dryb	1b	07/04/14b	B4F3022b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	120b	ug/kg dryb	1b	07/04/14b	B4F3022b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	120b	ug/kg dryb	1b	07/04/14b	B4F3022b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	120b	ug/kg dryb	1b	07/04/14b	B4F3022b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	120b	ug/kg dryb	1b	07/04/14b	B4F3022b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	120b	ug/kg dryb	1b	07/04/14b	B4F3022b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	120b	ug/kg dryb	1b	07/04/14b	B4F3022b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	120b	ug/kg dryb	1b	07/04/14b	B4F3022b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*59.9 %-*	*30-150-*		*07/04/14-*	B4F3022b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*62.0 %-*	*30-150-*		*07/04/14-*	B4F3022b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**86.9p**	0.1b	%b	1b	06/19/14b	B4F1910b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**3800p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7440-36-0b	**Antimonyp**	**0.5p**	0.3b	mg/kg dryb	10b	07/03/14b	B4F2305b	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.1p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-39-3b	**Bariump**	**44p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.3p**	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-47-3b	**Chromiump**	**8.0p**	2.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-48-4b	**Cobaltp**	**3.3p**	0.5b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-50-8b	**Cop erp**	**1100p**	100b	mg/kg dryb	1000b	07/03/14b	B4F2301b	6020/200.8b	
7439-89-6	**Ironp**	**7900p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2301b	6010/200.7b	
7439-92-1b	**Leadp**	**30p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-96-5b	**Manganesep**	**150p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.07p**	0.06	mg/kg dryb	1b	07/02/14b	B4F3015b	7471/245.5b	
7440-02-0b	**Nickelp**	**7.7p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-22-4b	**Silverp**	**1.4p**	0.1b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	
7440-66-6	**Zincp**	**79p**	1.0b	mg/kg dryb	10b	07/02/14b	B4F2301b	6020/200.8b	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	1406221
Project Name	Abandoned Mining Waste- Torch Lake PCB
Matrix	SOIL/SEDIMENT
Site Code/Project Number	31000098
AY	14
CC Email 1 to send additional reports to	shireyb
Project TAT Days	
Sample Collector	Jeff Pincumbe
Dept-Division-District	RRD-PSS-GSU
Index	44031
CC Email 2 to send additional reports to	j.binkley@westonsolutions.com
Project Due Date	
Sample Collector Phone	517-335-6418
State Project Manager	Jeff Pincumbe
PCA	30740
CC Email 3 to send additional reports to	kerarena@michigan.gov
Contract Firm	Weston Solutions
State Project Manager Email	pincumbej
Project	456990
Overflow Lab Choice 1	
Accept Analysis hold time codes: Yes/No	NO
Contract Firm Primary Contact	Jeff Binkley
State Project Manager Phone	517-335-6418
Phase	0
Overflow Lab Choice 2	
Primary Contact Phone	906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-SB 42 6"-12"	6-12-14	12:40		
2	02	CHLL-SB 42 ~~12"-3'~~ 1'-3'	6-12-14	12:45		
3	03	CHLL-SB 43 6-12"	6-12-14	1:10		
4	04	CHLL-SB 44 2"-12"	6-12-14	1:40p		
5	05	CHLL-SB 44 2"-~~12"~~ 12" dup	6-12-14	1:40p		
6	06	CHLL-SB 45 0"-8"	6/12/14	1445		
7	07	CHLL-SB 46 6-12"	6/12/14	1520		
8	08	CHLL-SB 47 0-6"	6/12/14	1555		
9	09	CHLL-SB 47 6"-30"	6/12/14	1600		
10	10	CHLL-SB 48 0-6"	6/12/14	1630		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 940
Signature:			
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406231	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Keranena@michigan.gov		Contract Firm: Weston Solutions
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: No	Contract Firm Primary Contact: Jeff Binkley
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906 523 5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	11	CHLL-SB 48 6-48"	6/12/14	1635		
2	12	CHLL-SB 49 0-6"	6/12/14	1710		
3	13	CHLL-SB 49 1-6'	6/12/14	1715		
4	14	CHLL-SB 49 1-6' Dup	6/12/14	1715		
5	15	CHLL-SB 30 0-6"	6-13-14	930		
6	16	CHLL-SB 30 6"-12"	6-13-14	935		
7	17	CHLL-SB 27 0"-6"	6-13-14	1015		
8	18	CHLL-SB 27 24"-30"	6-13-14	1015		
9	19	CHLL-SB 26 0"-6"	6-13-14	1140		
10	20	CHLL-SB 26 6"-30"	6-13-14	1140		

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Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

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Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 940
Signature:	[signature]	[signature]	
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909O
TEL: (517) 335-9800O
FAX: (517) 335-9600O

11 July 2014O

Work Order: 1406236O

Price: $6,011.00O

Jeff PincumbeO
MDEQ-RRD-LANSINGO
525 W. Allegan StreetO
Lansing, MI 48909O

RE: ABANDONED MINING WASTE-TORCH LAKE PCBO

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods O approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.O

Sincerely, O

George KrisztianO
Laboratory DirectorO

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

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Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

MDEQ-RRD-LANSINGb
525 W. Allegan Streetb
Lansing MI, 48909b

Project:bABANDONED MINING WASTE-TORCH LAKE PCBb
Site Code:b31000098b
Project Manager:bJeff Pincumbeb

Reported:p
07/11/2014b

Analytical Report for Samplesp

Sample IDp	Laboratory IDp	Matrixp	Date Sampledp	Date Receivedp	Qualifierp
CHLL-GW 36 12'-17'b	1406236-01b	Waterb	06/15/2014b	06/18/2014b	
CHLL-GW 39 8'-13b	1406236-02b	Waterb	06/15/2014b	06/18/2014b	
CHLL-GW 03 9-14'b	1406236-03b	Waterb	06/15/2014b	06/18/2014b	
CHLL-GW 02 9-14'b	1406236-04b	Waterb	06/16/2014b	06/18/2014b	
CHLL-GW 07 14'-19'b	1406236-05b	Waterb	06/16/2014b	06/18/2014b	
CHLL-GW 07 14'-19' dupb	1406236-06	Waterb	06/16/2014b	06/18/2014b	
CHLL-GW 06 16'-21'b	1406236-07b	Waterb	06/16/2014b	06/18/2014b	
CHLL-GW 05 20-25'b	1406236-08b	Waterb	06/16/2014b	06/18/2014b	
CHLL-GW 04 28-33'b	1406236-09b	Waterb	06/16/2014b	06/18/2014b	
CHLL-GW 27 8'-13b	1406236-10b	Waterb	06/12/2014b	06/18/2014b	
CHLL-GW 28 6'-11'b	1406236-11b	Waterb	06/12/2014b	06/18/2014b	
CHLL-GW 29 6'-11'b	1406236-12b	Waterb	06/12/2014b	06/18/2014b	
CHLL-GW 30 4-9'b	1406236-13b	Waterb	06/12/2014b	06/18/2014b	
CHLL-GW 31 8-13'b	1406236-14b	Waterb	06/12/2014b	06/18/2014b	
CHLL-GW 32 8-13'b	1406236-15b	Waterb	06/12/2014b	06/18/2014b	
CHLL-GW 32 8-13' Dupb	1406236-16	Waterb	06/12/2014b	06/18/2014b	
CHLL-GW 33 12-17'b	1406236-17b	Waterb	06/12/2014b	06/18/2014b	
CHLL-GW 34 10-15'b	1406236-18b	Waterb	06/12/2014b	06/18/2014b	
CHLL-GW 17 10-15'b	1406236-19b	Waterb	06/13/2014b	06/18/2014b	

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Notes and Definitions p

X3b	Spike recovery is not applicable due to large target analyte concentration in the source sample.b
Xb	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 ºC. 2-Methylnaphthalene & naphthalene b have boiling points above 200 ºC and are better suited to analysis by methods 8270 & 625 as semivolatile organics.b
KRb	Reporting limit(s) raised due to low sample volume submitted.b
A09b	Result is estimated due to high recovery of batch quality control.b
A07b	Result(s) and reporting limit(s) are estimated due to poor precision.b
A06	Result is estimated due to high continuing calibration standard criteria failure.b
A05b	Result and reporting limit are estimated due to low continuing calibration standard criteria failure.b
A04b	Result is estimated due to high matrix spike recovery.b
A03b	Result(s) and reporting limit(s) are estimated due to low matrix spike recovery.b
A01b	Result(s) and reporting limit(s) are estimated due to low surrogate recovery.b
NDb	Indicates compound analyzed for but not detectedb
RLb	Reporting Limitb
NAb	Not Applicableb

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 36 12'-17'p

Lab ID: 1406236-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05, Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 36 12'-17'p

Lab ID: 1406236-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
60-29-7b	Diethyl etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-41-4b	Ethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-72-1b	Hexachloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	2.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-88-4b	Methyl iodideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-09-2b	Methylene chlorideb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-20-3b	Naphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-47-6	o-Xyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-42-5b	Styreneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	50b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-88-3b	Tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05b
79-01-6	Trichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-01-4b	Vinyl chlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
Surrogate: Bromofluorobenzene-			*93.5 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Dibromofluoromethane-			*92.9 %-*	*82.7-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Toluene-d8-			*86.8 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	

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Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-GW 36 12'-17'p

Lab ID: 1406236-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*48.8 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*61.4 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*58.6 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/26/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*47.5 %-*	*30-150-*		*06/26/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*52.9 %-*	*30-150-*		*06/26/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 36 12'-17'p

Lab ID: 1406236-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**730p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.3p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-39-3b	**Bariump**	**80p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-47-3b	**Chromiump**	**2.2p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-50-8b	**Cop erp**	**4.6p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-89-6	**Ironp**	**2600p**	20b	ug/Lb	1b	06/26/14b	B4F1901b	6010/200.7b	
7439-92-1b	**Leadp**	**4.8p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-96-5b	**Manganesep**	**350p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**20p**	2.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-66-6	**Zincp**	**94p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	

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Client ID: CHLL-GW 39 8'-13p

Lab ID: 1406236-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*55.2 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*59.2 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 03 9-14'p

Lab ID: 1406236-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05, Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
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Client ID: CHLL-GW 03 9-14'p

Lab ID: 1406236-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
60-29-7b	Diethyl etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-41-4b	Ethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-72-1b	Hexachloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	2.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-88-4b	Methyl iodideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-09-2b	Methylene chlorideb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-20-3b	Naphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-47-6	o-Xyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-42-5b	Styreneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	50b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-88-3b	Tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05b
79-01-6	Trichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-01-4b	Vinyl chlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
Surrogate: Bromofluorobenzene-			*94.0 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Dibromofluoromethane-			*92.7 %-*	*82.7-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Toluene-d8-			*88.5 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	

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Client ID: CHLL-GW 03 9-14'p

Lab ID: 1406236-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	**Acenaphthene**	**3.4p**	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	**Anthracene**	**1.2p**	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	**Fluoranthene**	**1.6p**	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	**Fluorene**	**2.2p**	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	**Phenanthrene**	**7.1p**	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	**Pyrene**	**1.1p**	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*61.3 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*72.6 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*75.3 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*69.2 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*50.7 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 03 9-14'p

Lab ID: 1406236-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**74p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.9p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-39-3b	**Bariump**	**200p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-47-3b	Chromiumb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-50-8b	**Cop erp**	**250p**	10b	ug/Lb	10b	07/01/14b	B4F1901b	6020/200.8b	
7439-89-6	**Ironp**	**5500p**	20b	ug/Lb	1b	06/26/14b	B4F1901b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-96-5b	**Manganesep**	**2000p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**7.1p**	2.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-22-4b	**Silverp**	**0.7p**	0.2b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-66-6	**Zincp**	**5.0p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	

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Client ID: CHLL-GW 02 9-14'p

Lab ID: 1406236-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05, Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	

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Client ID: CHLL-GW 02 9-14'p

Lab ID: 1406236-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
60-29-7b	Diethyl ether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-20-3b	Diisopropyl Ether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-41-4b	Ethylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-72-1b	Hexachloroethane	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-82-8b	Isopropylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1330-20-7b	m & p - Xylene	NDb	2.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-88-4b	Methyl iodide	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-09-2b	Methylene chloride	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-20-3b	Naphthalene	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
103-65-1b	n-Propylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-47-6	o-Xylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
99-87-6	p-Isopropyl toluene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
135-98-8b	sec-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-42-5b	Styrene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-06-6	tert-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	50b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
127-18-4b	Tetrachloroethylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
109-99-9b	Tetrahydrofuran	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-88-3b	Toluene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05b
79-01-6	Trichloroethylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-01-4b	Vinyl chloride	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
Surrogate: Bromofluorobenzene-			*94.6 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Dibromofluoromethane-			*97.5 %-*	*82.7-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Toluene-d8-			*87.3 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	

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ENVIRONMENTAL LABORATORYC

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Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-GW 02 9-14'p

Lab ID: 1406236-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
83-32-9b	Acenaphtheneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
208-96-8b	Acenaphthyleneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
120-12-7b	Anthraceneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
207-08-9b	Benzo[k]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
218-01-9b	Chryseneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
206-44-0b	Fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
86-73-7b	Fluoreneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
91-20-3b	Naphthaleneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
85-01-8b	Phenanthreneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
129-00-0b	Pyreneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
Surrogate: 2-Fluorobiphenyl-			*56.4 %-*	*24.1-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: Nitrobenzene-d5-			*59.7 %-*	*17.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: p-Terphenyl-d14-			*69.8 %-*	*41.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*44.7 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*58.1 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 02 9-14'p

Lab ID: 1406236-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**10000p**	500b	ug/Lb	100b	06/30/14b	B4F1901b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-38-2b	**Arsenicp**	**6.4p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-39-3b	**Bariump**	**590p**	500b	ug/Lb	100b	07/01/14b	B4F1901b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-47-3b	**Chromiump**	**47p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-48-4b	**Cobaltp**	**6.6p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-50-8b	**Cop erp**	**1700p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-89-6	**Ironp**	**8800p**	20b	ug/Lb	1b	06/26/14b	B4F1901b	6010/200.7b	
7439-92-1b	**Leadp**	**7.6p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-96-5b	**Manganesep**	**300p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**24p**	2.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-22-4b	**Silverp**	**6.1p**	0.2b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-66-6	**Zincp**	**60p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	

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Client ID: CHLL-GW 07 14'-19'p

Lab ID: 1406236-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05, Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	

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Client ID: CHLL-GW 07 14'-19'p

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CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
60-29-7b	Diethyl etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-41-4b	Ethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-72-1b	Hexachloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	2.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-88-4b	Methyl iodideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-09-2b	Methylene chlorideb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-20-3b	Naphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-47-6	o-Xyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-42-5b	Styreneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	50b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-88-3b	Tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05b
79-01-6	Trichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-01-4b	Vinyl chlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
Surrogate: Bromofluorobenzene-			*93.8 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Dibromofluoromethane-			*95.9 %-*	*82.7-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Toluene-d8-			*88.2 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	

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Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-GW 07 14'-19'p

Lab ID: 1406236-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
Surrogate: 2-Fluorobiphenyl-			*50.7 %-*	*24.1-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: Nitrobenzene-d5-			*49.9 %-*	*17.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: p-Terphenyl-d14-			*67.1 %-*	*41.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*71.7 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*52.8 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 07 14'-19'p

Lab ID: 1406236-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**110p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.5p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-39-3b	**Bariump**	**360p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-47-3b	Chromiumb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-50-8b	**Cop erp**	**530p**	10b	ug/Lb	10b	07/01/14b	B4F1901b	6020/200.8b	
7439-89-6	**Ironp**	**360p**	20b	ug/Lb	1b	06/26/14b	B4F1901b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-96-5b	**Manganesep**	**31p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**7.6p**	2.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-22-4b	**Silverp**	**0.3p**	0.2b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-66-6	Zincb	NDb	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	

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Client ID: CHLL-GW 07 14'-19' dup

Lab ID: 1406236-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*64.1 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*57.5 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 06 16'-21'p

Lab ID: 1406236-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05, Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	

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Client ID: CHLL-GW 06 16'-21'p

Lab ID: 1406236-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
60-29-7b	Diethyl etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-41-4b	Ethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-72-1b	Hexachloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	2.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-88-4b	Methyl iodideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-09-2b	Methylene chlorideb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-20-3b	Naphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-47-6	o-Xyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-42-5b	Styreneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	50b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-88-3b	Tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05b
79-01-6	Trichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-01-4b	Vinyl chlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
Surrogate: Bromofluorobenzene-			*91.5 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Dibromofluoromethane-			*97.5 %-*	*82.7-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Toluene-d8-			*88.5 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	

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TEL: (517) 335-9800O
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Client ID: CHLL-GW 06 16'-21'p

Lab ID: 1406236-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
Surrogate: 2-Fluorobiphenyl-			*50.4 %-*	*24.1-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: Nitrobenzene-d5-			*51.6 %-*	*17.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: p-Terphenyl-d14-			*73.6 %-*	*41.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*63.0 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*57.1 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Lab ID: 1406236-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**84p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	A04b
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-38-2b	Arsenicb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-39-3b	**Bariump**	**190p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-47-3b	Chromiumb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7440-50-8b	**Cop erp**	**62p**	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-89-6	**Ironp**	**760p**	20b	ug/Lb	1b	06/26/14b	B4F1901b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-96-5b	**Manganesep**	**390p**	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**11p**	2.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-22-4b	**Silverp**	**0.6p**	0.2b	ug/Lb	1b	07/01/14b	B4F1901b	6020/200.8b	
7440-66-6	Zincb	NDb	5.0b	ug/Lb	1b	06/30/14b	B4F1901b	6020/200.8b	

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Client ID: CHLL-GW 05 20-25'p

Lab ID: 1406236-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05, Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	

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Lab ID: 1406236-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
60-29-7b	Diethyl ether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-20-3b	Diisopropyl Ether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-41-4b	Ethylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-72-1b	Hexachloroethane	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-82-8b	Isopropylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1330-20-7b	m & p - Xylene	NDb	2.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-88-4b	Methyl iodide	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-09-2b	Methylene chloride	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-20-3b	Naphthalene	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
103-65-1b	n-Propylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-47-6	o-Xylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
99-87-6	p-Isopropyl toluene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
135-98-8b	sec-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-42-5b	Styrene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-06-6	tert-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	50b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
127-18-4b	Tetrachloroethylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
109-99-9b	Tetrahydrofuran	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-88-3b	Toluene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05b
79-01-6	Trichloroethylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-01-4b	Vinyl chloride	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
Surrogate: Bromofluorobenzene-			*93.1 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Dibromofluoromethane-			*96.8 %-*	*82.7-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Toluene-d8-			*86.8 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	

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CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
83-32-9b	Acenaphtheneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
208-96-8b	Acenaphthyleneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
120-12-7b	Anthraceneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
207-08-9b	Benzo[k]fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
218-01-9b	Chryseneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
206-44-0b	Fluoranthenеb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
86-73-7b	Fluoreneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
91-20-3b	Naphthaleneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
85-01-8b	Phenanthreneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
129-00-0b	Pyreneb	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
Surrogate: 2-Fluorobiphenyl-			*50.6 %-*	*24.1-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: Nitrobenzene-d5-			*54.9 %-*	*17.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: p-Terphenyl-d14-			*65.4 %-*	*41.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*72.4 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*56.0 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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ENVIRONMENTAL LABORATORYC

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Client ID: CHLL-GW 05 20-25'p

Lab ID: 1406236-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**82p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.2p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**630p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	Chromiumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**600p**	10b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**830p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**45p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**9.6p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	**Seleniump**	**1.3p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-22-4b	**Silverp**	**0.2p**	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**5.2p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

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Client ID: CHLL-GW 04 28-33'p

Lab ID: 1406236-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05, Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	

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Client ID: CHLL-GW 04 28-33'p

Lab ID: 1406236-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
60-29-7b	Diethyl etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-41-4b	Ethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-72-1b	Hexachloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	2.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-88-4b	Methyl iodideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-09-2b	Methylene chlorideb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-20-3b	Naphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-47-6	o-Xyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-42-5b	Styreneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	50b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-88-3b	Tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05b
79-01-6	Trichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-01-4b	Vinyl chlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
Surrogate: Bromofluorobenzene-			*92.6 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Dibromofluoromethane-			*97.8 %-*	*82.7-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Toluene-d8-			*87.5 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	

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Lab ID: 1406236-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/26/14b	B4F2001b	8270b	
Surrogate: 2-Fluorobiphenyl-			*53.8 %-*	*24.1-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: Nitrobenzene-d5-			*57.6 %-*	*17.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Surrogate: p-Terphenyl-d14-			*62.1 %-*	*41.8-115-*		*06/26/14-*	B4F2001b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*37.3 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*64.0 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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TEL: (517) 335-9800O
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Client ID: CHLL-GW 04 28-33'p

Lab ID: 1406236-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**23000p**	5000b	ug/Lb	1000b	07/03/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	**Arsenicp**	**9.7p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**290p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	**Berylliump**	**2.0p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.2p**	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**89p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	**Cobaltp**	**33p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**2300p**	10b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**27000p**	200b	ug/Lb	10b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	**Leadp**	**6.5p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**830p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.6p**	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**120p**	20b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	
7782-49-2b	**Seleniump**	**2.8p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-22-4b	**Silverp**	**23p**	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**420p**	50b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	

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Client ID: CHLL-GW 27 8'-13p

Lab ID: 1406236-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*51.8 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*66.6 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*81.2 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*49.3 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*43.3 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-GW 28 6'-11'p

Lab ID: 1406236-11p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note A01p**
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*26.2 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*33.8 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 29 6'-11'p

Lab ID: 1406236-12p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*46.0 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*45.1 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 30 4-9'p

Lab ID: 1406236-13p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*31.9 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*41.2 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 31 8-13'p

Lab ID: 1406236-14p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*48.2 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*49.0 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 32 8-13'p

Lab ID: 1406236-15p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*56.7 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*46.7 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 32 8-13' Dup

Lab ID: 1406236-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*63.5 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*42.4 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-GW 33 12-17'p

Lab ID: 1406236-17p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note A01p**
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*26.1 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*44.6 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 34 10-15'p

Lab ID: 1406236-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05, Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	

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Client ID: CHLL-GW 34 10-15'p

Lab ID: 1406236-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
60-29-7b	Diethyl ether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-20-3b	Diisopropyl Ether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-41-4b	Ethylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-72-1b	Hexachloroethane	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-82-8b	Isopropylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1330-20-7b	m & p - Xylene	NDb	2.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-88-4b	Methyl iodide	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-09-2b	Methylene chloride	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-20-3b	Naphthalene	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
103-65-1b	n-Propylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-47-6	o-Xylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
99-87-6	p-Isopropyl toluene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
135-98-8b	sec-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-42-5b	Styrene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-06-6	tert-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	50b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
127-18-4b	Tetrachloroethylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
109-99-9b	Tetrahydrofuran	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-88-3b	Toluene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05b
79-01-6	Trichloroethylene	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-01-4b	Vinyl chloride	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
Surrogate: Bromofluorobenzene-			*90.9 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Dibromofluoromethane-			*94.7 %-*	*82.7-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Toluene-d8-			*87.1 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	

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Client ID: CHLL-GW 34 10-15'p

Lab ID: 1406236-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.2b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.1b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.1b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*51.4 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*68.0 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*77.1 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.11b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.11b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.11b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.11b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.11b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.11b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.11b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.11b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.11b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*51.6 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*72.0 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	

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Client ID: CHLL-GW 17 10-15'p

Lab ID: 1406236-19p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/27/14b	B4F2501b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*51.6 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*58.2 %-*	*30-150-*		*06/27/14-*	B4F2501b	*8081/8082-*	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**1600p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	**Arsenicp**	**3.5p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**58p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**2.4p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**99p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**3100p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	**Leadp**	**4.8p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**33p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**3.6p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	**Seleniump**	**1.6p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**9.6p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	1406236
Project Name	Abandoned Mining Waste- Torch Lake PCB
Matrix	WATER
Site Code/Project Number	31000098
AY	14
CC Email 1 to send additional reports to	shireyb
Project TAT Days	
Sample Collector	Jeff Pincumbe
Dept-Division-District	RRD-PSS-GSU
Index	44031
CC Email 2 to send additional reports to	j.binkley@westonsolutions.com
Project Due Date	
Sample Collector Phone	517-335-6418
State Project Manager	Jeff Pincumbe
PCA	30740
CC Email 3 to send additional reports to	Keranenac michigan.gov
Contract Firm	Weston solutions
State Project Manager Email	pincumbej
Project	456990
Overflow Lab Choice 1	
Accept Analysis hold time codes: Yes/No	No
Contract Firm Primary Contact	Jeff Binkley
State Project Manager Phone	517-335-6418
Phase	0
Overflow Lab Choice 2	
Primary Contact Phone	906 523 5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-GW 36 - ~~12'-17'~~ 12'-17'	6/15/14			
2	02	CHLL-GW 39 8'-13'	6/15/14	1100		
3	03	CHLL-GW 03 9-14'	6/15/14	1345		
4	04	CHLL-GW 02 - 9'-14'	6/16/14	0830		
5	05	CHLL-GW 07 - 14'-19'	6/16/14	0908		
6	06	CHLL-GW 07 - 14'-19' dup	6/16/14	0908		
7	07	CHLL-GW 06 - 16-21'	6/16/14	1045		
8	08	CHLL-GW 05 - 20-25'	6/16/14	1330		
9	09	CHLL-GW 04 - 28-33'	6/16/14	1550		
10		CHLL-GW				

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic	
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10
METH - Methane, Ethane, Ethene	
Methane, Ethane, Ethene	1 2 3 4 5 6 7 8 9 10
ON - Pesticides, PCBs	
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10
Specialty Pesticides	1 2 3 4 5 6 7 8 9 10
BNA - Base Neutral Acids	
BNAs	1 2 3 4 5 6 7 8 9 10
Benzidines	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10
Acids only	1 2 3 4 5 6 7 8 9 10
Organic Specialty Requests	
Library search-Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search-SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total	1 2 3 4 5 6 7 8 9 10
OpMemo2 - Dissolved	1 2 3 4 5 6 7 8 9 10
(Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	
Michigan10 - Total	1 2 3 4 5 6 7 8 9 10
Michigan10 - Dissolved	1 2 3 4 5 6 7 8 9 10
(As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	

MAD - DISSOLVED METALS

Diss - Silver - Ag	1 2 3 4 5 6 7 8 9 10
Diss - Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Diss - Arsenic - As	1 2 3 4 5 6 7 8 9 10
Diss - Boron - B	1 2 3 4 5 6 7 8 9 10
Diss - Barium - Ba	1 2 3 4 5 6 7 8 9 10
Diss - Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Diss - Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Diss - Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Diss - Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Diss - Copper - Cu	1 2 3 4 5 6 7 8 9 10
Diss - Iron - Fe	1 2 3 4 5 6 7 8 9 10
Diss - Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Diss - Lithium - Li	1 2 3 4 5 6 7 8 9 10
Diss - Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Diss - Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Diss - Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Diss - Lead - Pb	1 2 3 4 5 6 7 8 9 10
Diss - Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Diss - Selenium - Se	1 2 3 4 5 6 7 8 9 10
Diss - Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Diss - Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Diss - Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Diss - Vanadium - V	1 2 3 4 5 6 7 8 9 10
Diss - Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Diss - Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Diss - Potassium - K	1 2 3 4 5 6 7 8 9 10
Diss - Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Diss - Sodium - Na	1 2 3 4 5 6 7 8 9 10
Diss - Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10
MD - Metals Dissolved	
Lab Filtration	1 2 3 4 5 6 7 8 9 10

MA - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Boron - B	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10
Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10
LHG - Low Level Mercury	
Mercury Low Level - Hg	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GB - General Basic	
Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Amenable Cyanide - CN	1 2 3 4 5 6 7 8 9 10
GCN - General Cyanide	
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
CA - Chlorophyll	
Chlorophyll	1 2 3 4 5 6 7 8 9 10
GN - General Chemistry Neutral	
Ortho Phosphate - OP	1 2 3 4 5 6 7 8 9 10
Nitrite - NO_2	1 2 3 4 5 6 7 8 9 10
Nitrate - NO_3 (Calc.)	1 2 3 4 5 6 7 8 9 10
Suspended Solids - SS	1 2 3 4 5 6 7 8 9 10
Disolved Solids - TDS	1 2 3 4 5 6 7 8 9 10
Turbidity	1 2 3 4 5 6 7 8 9 10
MN - Inorganic Matrix Neutral	
Total Alkalinity	1 2 3 4 5 6 7 8 9 10
Bicarb/Carb Alkalinity (Includes Total Alkalinity)	1 2 3 4 5 6 7 8 9 10
Chloride - Cl	1 2 3 4 5 6 7 8 9 10
Sulfate - SO_4	1 2 3 4 5 6 7 8 9 10
Chromium 6 - Cr^{+6}	1 2 3 4 5 6 7 8 9 10
Conductivity	1 2 3 4 5 6 7 8 9 10
pH	1 2 3 4 5 6 7 8 9 10
GA - General Chemistry Acidic	
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Diss Org Carbon - DOC	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Ammonia - NH_3	1 2 3 4 5 6 7 8 9 10
Nitrate+Nitrite - NO_3+NO_2	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 950
Signature:			
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406236	Abandoned Mining Waste- Torch Lake PCB	WATER

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Keranena@michigan.gov		Contract Firm: weston solutions
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: No	Contract Firm Primary Contact: Jeff Binkley
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906 523 5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	10	CHLL-GW 27 8'-13'	6-12-14	1:00p		
2	11	CHLL-GW 28 6'-11'	6-12-14	1:20p		
3	12	CHLL-GW 29 6'-11'	6-12-14	1:40p		
4	13	CHLL-GW 30 4-9'	6/12/14	1500		
5	14	CHLL-GW 31 8-13'	6/12/14	1530		
6	15	CHLL-GW 32 8-13'	6/12/14	1600		
7	16	CHLL-GW 32 8-13' Dup	6/12/14	1600		
8	17	CHLL-GW 33 12-17'	6/12/14	1640		
9	18	CHLL-GW 34 10-15'	6/12/14	1720		
10	19	CHLL-GW 17 10-15'	6-13-14	0940		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic
- Volatiles - Full List: 1 2 3 4 5 6 7 8 9 10
- BTEX/MTBE/TMB only: 1 2 3 4 5 6 7 8 9 10
- Chlorinated only: 1 2 3 4 5 6 7 8 9 10
- GRO: 1 2 3 4 5 6 7 8 9 10
- 1,4 Dioxane: 1 2 3 4 5 6 7 8 9 10

METH - Methane, Ethane, Ethene
- Methane, Ethane, Ethene: 1 2 3 4 5 6 7 8 9 10

ON - Pesticides, PCBs
- Pesticides & PCBs: 1 2 3 4 5 6 7 8 9 10
- Pesticides only: 1 2 3 4 5 6 7 8 9 10
- PCBs only: 1 2 3 4 5 6 7 8 9 10
- Toxaphene: 1 2 3 4 5 6 7 8 9 10
- Specialty Pesticides: 1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids
- BNAs: 1 2 3 4 5 6 7 8 9 10
- Benzidines: 1 2 3 4 5 6 7 8 9 10
- PNAs only: 1 2 3 4 5 6 7 8 9 10
- BNs only: 1 2 3 4 5 6 7 8 9 10
- Acids only: 1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests
- Library search-Volatiles: 1 2 3 4 5 6 7 8 9 10
- Library Search-SemiVols: 1 2 3 4 5 6 7 8 9 10
- Finger Print: 1 2 3 4 5 6 7 8 9 10
- DRO / ORO: 1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

- OpMemo2 - Total: 1 2 3 4 5 6 7 8 9 10
- OpMemo2 - Dissolved: 1 2 3 4 5 6 7 8 9 10
- (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)
- Michigan10 - Total: 1 2 3 4 5 6 7 8 9 10
- Michigan10 - Dissolved: 1 2 3 4 5 6 7 8 9 10
- (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)

MAD - DISSOLVED METALS

- Diss - Silver - Ag: 1 2 3 4 5 6 7 8 9 10
- Diss - Aluminum - Al: 1 2 3 4 5 6 7 8 9 10
- Diss - Arsenic - As: 1 2 3 4 5 6 7 8 9 10
- Diss - Boron - B: 1 2 3 4 5 6 7 8 9 10
- Diss - Barium - Ba: 1 2 3 4 5 6 7 8 9 10
- Diss - Beryllium - Be: 1 2 3 4 5 6 7 8 9 10
- Diss - Cadmium - Cd: 1 2 3 4 5 6 7 8 9 10
- Diss - Cobalt - Co: 1 2 3 4 5 6 7 8 9 10
- Diss - Chromium - Cr: 1 2 3 4 5 6 7 8 9 10
- Diss - Copper - Cu: 1 2 3 4 5 6 7 8 9 10
- Diss - Iron - Fe: 1 2 3 4 5 6 7 8 9 10
- Diss - Mercury - Hg: 1 2 3 4 5 6 7 8 9 10
- Diss - Lithium - Li: 1 2 3 4 5 6 7 8 9 10
- Diss - Manganese - Mn: 1 2 3 4 5 6 7 8 9 10
- Diss - Molybdenum - Mo: 1 2 3 4 5 6 7 8 9 10
- Diss - Nickel - Ni: 1 2 3 4 5 6 7 8 9 10
- Diss - Lead - Pb: 1 2 3 4 5 6 7 8 9 10
- Diss - Antimony - Sb: 1 2 3 4 5 6 7 8 9 10
- Diss - Selenium - Se: 1 2 3 4 5 6 7 8 9 10
- Diss - Strontium - Sr: 1 2 3 4 5 6 7 8 9 10
- Diss - Titanium - Ti: 1 2 3 4 5 6 7 8 9 10
- Diss - Thallium - Tl: 1 2 3 4 5 6 7 8 9 10
- Diss - Vanadium - V: 1 2 3 4 5 6 7 8 9 10
- Diss - Zinc - Zn: 1 2 3 4 5 6 7 8 9 10
- Diss - Calcium - Ca: 1 2 3 4 5 6 7 8 9 10
- Diss - Potassium - K: 1 2 3 4 5 6 7 8 9 10
- Diss - Magnesium - Mg: 1 2 3 4 5 6 7 8 9 10
- Diss - Sodium - Na: 1 2 3 4 5 6 7 8 9 10
- Diss - Hardness - Ca, Mg: 1 2 3 4 5 6 7 8 9 10

MD - Metals Dissolved
- Lab Filtration: 1 2 3 4 5 6 7 8 9 10

MA - TOTAL METALS

- Silver - Ag: 1 2 3 4 5 6 7 8 9 10
- Aluminum - Al: 1 2 3 4 5 6 7 8 9 10
- Arsenic - As: 1 2 3 4 5 6 7 8 9 10
- Boron - B: 1 2 3 4 5 6 7 8 9 10
- Barium - Ba: 1 2 3 4 5 6 7 8 9 10
- Beryllium - Be: 1 2 3 4 5 6 7 8 9 10
- Cadmium - Cd: 1 2 3 4 5 6 7 8 9 10
- Cobalt - Co: 1 2 3 4 5 6 7 8 9 10
- Chromium - Cr: 1 2 3 4 5 6 7 8 9 10
- Copper - Cu: 1 2 3 4 5 6 7 8 9 10
- Iron - Fe: 1 2 3 4 5 6 7 8 9 10
- Mercury - Hg: 1 2 3 4 5 6 7 8 9 10
- Lithium - Li: 1 2 3 4 5 6 7 8 9 10
- Manganese - Mn: 1 2 3 4 5 6 7 8 9 10
- Molybdenum - Mo: 1 2 3 4 5 6 7 8 9 10
- Nickel - Ni: 1 2 3 4 5 6 7 8 9 10
- Lead - Pb: 1 2 3 4 5 6 7 8 9 10
- Antimony - Sb: 1 2 3 4 5 6 7 8 9 10
- Selenium - Se: 1 2 3 4 5 6 7 8 9 10
- Strontium - Sr: 1 2 3 4 5 6 7 8 9 10
- Titanium - Ti: 1 2 3 4 5 6 7 8 9 10
- Thallium - Tl: 1 2 3 4 5 6 7 8 9 10
- Vanadium - V: 1 2 3 4 5 6 7 8 9 10
- Zinc - Zn: 1 2 3 4 5 6 7 8 9 10
- Calcium - Ca: 1 2 3 4 5 6 7 8 9 10
- Potassium - K: 1 2 3 4 5 6 7 8 9 10
- Magnesium - Mg: 1 2 3 4 5 6 7 8 9 10
- Sodium - Na: 1 2 3 4 5 6 7 8 9 10
- Hardness - Ca, Mg: 1 2 3 4 5 6 7 8 9 10

LHG - Low Level Mercury
- Mercury Low Level - Hg: 1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GB - General Basic
- Total Cyanide - CN: 1 2 3 4 5 6 7 8 9 10
- Amenable Cyanide - CN: 1 2 3 4 5 6 7 8 9 10

GCN - General Cyanide
- Available Cyanide - CN: 1 2 3 4 5 6 7 8 9 10

CA - Chlorophyll
- Chlorophyll: 1 2 3 4 5 6 7 8 9 10

GN - General Chemistry Neutral
- Ortho Phosphate - OP: 1 2 3 4 5 6 7 8 9 10
- Nitrite - NO_2: 1 2 3 4 5 6 7 8 9 10
- Nitrate - NO_3 (Calc.): 1 2 3 4 5 6 7 8 9 10
- Suspended Solids - SS: 1 2 3 4 5 6 7 8 9 10
- Disolved Solids - TDS: 1 2 3 4 5 6 7 8 9 10
- Turbidity: 1 2 3 4 5 6 7 8 9 10

MN - Inorganic Matrix Neutral
- Total Alkalinity: 1 2 3 4 5 6 7 8 9 10
- Bicarb/Carb Alkalinity (Includes Total Alkalinity): 1 2 3 4 5 6 7 8 9 10
- Chloride - Cl: 1 2 3 4 5 6 7 8 9 10
- Sulfate - SO_4: 1 2 3 4 5 6 7 8 9 10
- Chromium 6 - Cr^{+6}: 1 2 3 4 5 6 7 8 9 10
- Conductivity: 1 2 3 4 5 6 7 8 9 10
- pH: 1 2 3 4 5 6 7 8 9 10

GA - General Chemistry Acidic
- Chem Oxyg Dem - COD: 1 2 3 4 5 6 7 8 9 10
- Diss Org Carbon - DOC: 1 2 3 4 5 6 7 8 9 10
- Total Org Carbon - TOC: 1 2 3 4 5 6 7 8 9 10
- Ammonia - NH_3: 1 2 3 4 5 6 7 8 9 10
- Nitrate+Nitrite - NO_3+NO_2: 1 2 3 4 5 6 7 8 9 10
- Kjeldahl Nitrogen - KN: 1 2 3 4 5 6 7 8 9 10
- Total Phosphorus - TP: 1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 9:56
Signature:			
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909O
TEL: (517) 335-9800O
FAX: (517) 335-9600O

11 July 2014O

Work Order: 1406237O

Price: $4,789.00O

Jeff PincumbeO
MDEQ-RRD-LANSINGO
525 W. Allegan StreetO
Lansing, MI 48909O

RE: ABANDONED MINING WASTE-TORCH LAKE PCBO

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods O approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.O

Sincerely, O

George KrisztianO
Laboratory DirectorO

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

MDEQ-RRD-LANSINGb
525 W. Allegan Streetb
Lansing MI, 48909b

Project:bABANDONED MINING WASTE-TORCH LAKE PCBb
Site Code:b31000098b
Project Manager:bJeff Pincumbeb

Reported:p
07/11/2014b

Analytical Report for Samplesp

Sample IDp	Laboratory IDp	Matrixp	Date Sampledp	Date Receivedp	Qualifierp
CHLL-GW 17 10-15' dupb	1406237-01b	Waterb	06/13/2014b	06/18/2014b	
CHLL-GW 16 8'-13'b	1406237-02b	Waterb	06/13/2014b	06/18/2014b	
CHLL-GW 15 10'-15'b	1406237-03b	Waterb	06/13/2014b	06/18/2014b	
CHLL-GW 01 7'-12'b	1406237-04b	Waterb	06/13/2014b	06/18/2014b	
CHLL-GW 11 10'-15'b	1406237-05b	Waterb	06/14/2014b	06/18/2014b	
CHLL-GW 38 10'-15'b	1406237-06	Waterb	06/14/2014b	06/18/2014b	
CHLL-GW 10 12'-17'b	1406237-07b	Waterb	06/14/2014b	06/18/2014b	
CHLL-GW 09 12'-17'b	1406237-08b	Waterb	06/14/2014b	06/18/2014b	
CHLL-GW 08 12'-17'b	1406237-09b	Waterb	06/14/2014b	06/18/2014b	
CHLL-GW 35 6'-11'b	1406237-10b	Waterb	06/14/2014b	06/18/2014b	

Notes and Definitions p

Xb	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 ºC. 2-Methylnaphthalene & naphthalene b have boiling points above 200 ºC and are better suited to analysis by methods 8270 & 625 as semivolatile organics.b
KRb	Reporting limit(s) raised due to low sample volume submitted.b
Ib	Dilution required due to matrix interference; reporting limit (RL) raised.b
A12b	Result is estimated due to inter-replicate sample analysis RSD > 10%.b
A09b	Result is estimated due to high recovery of batch quality control.b
A08b	Result(s) and reporting limits(s) are estimated due to low recovery of batch QC.b
A07b	Result(s) and reporting limit(s) are estimated due to poor precision.b
A06	Result is estimated due to high continuing calibration standard criteria failure.b
A05b	Result and reporting limit are estimated due to low continuing calibration standard criteria failure.b
A03b	Result(s) and reporting limit(s) are estimated due to low matrix spike recovery.b
A01b	Result(s) and reporting limit(s) are estimated due to low surrogate recovery.b
NDb	Indicates compound analyzed for but not detected b
RLb	Reporting Limit b
NAb	Not Applicable b

Lab Work Order # 1406237b

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 17 10-15' dup

Lab ID: 1406237-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*45.9 %-*	*30-150-*		*06/30/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*47.6 %-*	*30-150-*		*06/30/14-*	B4F2701b	*8081/8082-*	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**1600p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	**Arsenicp**	**3.7p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**60p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**2.4p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**100p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**3400p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	**Leadp**	**5.0p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**33p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**3.6p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	**Seleniump**	**1.6p**	1.0b	ug/Lb	1b	07/07/14b	B4F1902b	6020/200.8b	A12b
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**9.9p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

Lab Work Order # 1406237b

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 16 8'-13'p

Lab ID: 1406237-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*57.2 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*72.6 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*75.6 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*51.2 %-*	*30-150-*		*06/30/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*44.8 %-*	*30-150-*		*06/30/14-*	B4F2701b	*8081/8082-*	

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Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 16 8'-13'p

Lab ID: 1406237-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**750p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	Arsenicb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**67p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**2.7p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**39p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**3400p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**110p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**9.3p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**7.9p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

Lab Work Order # 1406237b

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-GW 15 10'-15'p

Lab ID: 1406237-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*58.8 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*74.3 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*94.5 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*44.2 %-*	*30-150-*		*06/30/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*48.0 %-*	*30-150-*		*06/30/14-*	B4F2701b	*8081/8082-*	

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
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TEL: (517) 335-9800O
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Client ID: CHLL-GW 15 10'-15'p

Lab ID: 1406237-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**740p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	Arsenicb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**41p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**1.9p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**1700p**	100b	ug/Lb	100b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**3600p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**200p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**8.9p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**5.1p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
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TEL: (517) 335-9800O
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Client ID: CHLL-GW 01 7'-12'p

Lab ID: 1406237-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A03, A05, b Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	

STATE OF MICHIGAN
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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 01 7'-12'p

Lab ID: 1406237-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-95-3b	Dibromomethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
60-29-7b	Diethyl etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-41-4b	Ethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
67-72-1b	Hexachloroethaneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	2.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
74-88-4b	Methyl iodideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-09-2b	Methylene chlorideb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
91-20-3b	Naphthaleneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
95-47-6	o-Xyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
100-42-5b	Styreneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	50b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
108-88-3b	Tolueneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	5.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	A05b
79-01-6	Trichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
75-01-4b	Vinyl chlorideb	NDb	1.0b	ug/Lb	1b	06/23/14b	B4F2310b	8260b	
Surrogate: Bromofluorobenzene-			*92.4 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Dibromofluoromethane-			*95.6 %-*	*82.7-115-*		*06/23/14-*	B4F2310b	*8260-*	
Surrogate: Toluene-d8-			*87.5 %-*	*85-115-*		*06/23/14-*	B4F2310b	*8260-*	

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Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-GW 01 7'-12'p

Lab ID: 1406237-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*61.6 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*81.2 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*72.5 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	06/30/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*35.0 %-*	*30-150-*		*06/30/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*46.6 %-*	*30-150-*		*06/30/14-*	B4F2701b	*8081/8082-*	

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
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TEL: (517) 335-9800O
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Client ID: CHLL-GW 11 10'-15'p

Lab ID: 1406237-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	

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Client ID: CHLL-GW 11 10'-15'p

Lab ID: 1406237-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
60-29-7b	Diethyl etherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-41-4b	Ethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-72-1b	Hexachloroethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	2.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-88-4b	Methyl iodideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-09-2b	Methylene chlorideb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-20-3b	Naphthaleneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-47-6	o-Xyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-42-5b	Styreneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	50b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-88-3b	Tolueneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	A05b
79-01-6	Trichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-01-4b	Vinyl chlorideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
Surrogate: Bromofluorobenzene-			*94.7 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Dibromofluoromethane-			*98.3 %-*	*82.7-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Toluene-d8-			*88.8 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	

Lab Work Order # 1406237b

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ENVIRONMENTAL LABORATORYC

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Client ID: CHLL-GW 11 10'-15'p

Lab ID: 1406237-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*63.7 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*79.0 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*82.1 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*47.7 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*38.8 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	

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Client ID: CHLL-GW 11 10'-15'p

Lab ID: 1406237-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**920p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	**Arsenicp**	**3.0p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**210p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**1.5p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**13p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**14000p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**750p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**8.8p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**50p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

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Client ID: CHLL-GW 38 10'-15'p

Lab ID: 1406237-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
526-73-8b	**1,2,3-Trimethylbenzenep**	**1.1p**	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-63-6	**1,2,4-Trimethylbenzenep**	**1.9p**	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-43-2b	**Benzenep**	**100p**	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-82-7b	**Cyclohexanep**	**8.1p**	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	

Lab Work Order # 1406237b

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Client ID: CHLL-GW 38 10'-15'p

Lab ID: 1406237-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
60-29-7b	Diethyl ether	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-20-3b	Diisopropyl Ether	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-41-4b	**Ethylbenzene**	**7.4p**	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-72-1b	Hexachloroethane	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-82-8b	Isopropylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1330-20-7b	**m & p - Xylene**	**7.9p**	2.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-88-4b	Methyl iodide	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-09-2b	Methylene chloride	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-20-3b	Naphthalene	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
103-65-1b	n-Propylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-47-6	**o-Xylene**	**1.5p**	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
99-87-6	p-Isopropyl toluene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
135-98-8b	sec-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-42-5b	Styrene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-06-6	tert-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	50b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
127-18-4b	Tetrachloroethylene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
109-99-9b	Tetrahydrofuran	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-88-3b	**Toluene**	**2.8p**	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	A05b
79-01-6	Trichloroethylene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-01-4b	Vinyl chloride	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
Surrogate: Bromofluorobenzene-			*91.3 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Dibromofluoromethane-			*96.5 %-*	*82.7-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Toluene-d8-			*88.6 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	

Lab Work Order # 1406237b

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 38 10'-15'p

Lab ID: 1406237-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*56.7 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*68.5 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*82.5 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*43.7 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*42.9 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	

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Client ID: CHLL-GW 38 10'-15'p

Lab ID: 1406237-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**4700p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.5p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**400p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**24p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**2400p**	100b	ug/Lb	100b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**16000p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	**Leadp**	**1.2p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**770p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**17p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-22-4b	**Silverp**	**2.1p**	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**23p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

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TEL: (517) 335-9800O
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Client ID: CHLL-GW 10 12'-17'p

Lab ID: 1406237-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	

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TEL: (517) 335-9800O
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Client ID: CHLL-GW 10 12'-17'p

Lab ID: 1406237-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
60-29-7b	Diethyl etherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-41-4b	Ethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-72-1b	Hexachloroethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	2.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-88-4b	Methyl iodideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-09-2b	Methylene chlorideb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-20-3b	Naphthaleneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-47-6	o-Xyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-42-5b	Styreneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	50b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-88-3b	Tolueneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	A05b
79-01-6	Trichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-01-4b	Vinyl chlorideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
Surrogate: Bromofluorobenzene-			*94.6 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Dibromofluoromethane-			*97.2 %-*	*82.7-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Toluene-d8-			*87.6 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	

Lab Work Order # 1406237b

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Client ID: CHLL-GW 10 12'-17'p

Lab ID: 1406237-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/20/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*69.2 %-*	*24.1-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*84.9 %-*	*17.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*78.0 %-*	*41.8-115-*		*06/20/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*38.6 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*46.7 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	

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ENVIRONMENTAL LABORATORYC

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Client ID: CHLL-GW 10 12'-17'p

Lab ID: 1406237-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**420p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	Arsenicb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**380p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	Chromiumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**11p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**2000p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	Leadb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**570p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**9.4p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**5.2p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

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Client ID: CHLL-GW 09 12'-17'p

Lab ID: 1406237-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-87-3b	Chloromethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	

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Client ID: CHLL-GW 09 12'-17'p

Lab ID: 1406237-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
60-29-7b	Diethyl ether	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-20-3b	Diisopropyl Ether	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-41-4b	Ethylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-72-1b	Hexachloroethane	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-82-8b	Isopropylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1330-20-7b	m & p - Xylene	NDb	2.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-88-4b	Methyl iodide	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-09-2b	Methylene chloride	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-20-3b	Naphthalene	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
103-65-1b	n-Propylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-47-6	o-Xylene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
99-87-6	p-Isopropyl toluene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
135-98-8b	sec-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-42-5b	Styrene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-06-6	tert-Butylbenzene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	50b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
127-18-4b	Tetrachloroethylene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
109-99-9b	Tetrahydrofuran	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-88-3b	Toluene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	A05b
79-01-6	Trichloroethylene	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-01-4b	Vinyl chloride	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
Surrogate: Bromofluorobenzene-			*92.2 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Dibromofluoromethane-			*101 %-*	*82.7-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Toluene-d8-			*89.2 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	

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Client ID: CHLL-GW 09 12'-17'p

Lab ID: 1406237-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*67.2 %-*	*24.1-115-*		*06/19/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*62.9 %-*	*17.8-115-*		*06/19/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*78.1 %-*	*41.8-115-*		*06/19/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									**See note A01p**
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*29.0 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*41.8 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 09 12'-17'p

Lab ID: 1406237-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**1300p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	**Arsenicp**	**19p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**1400p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.3p**	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**3.8p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**1100p**	100b	ug/Lb	100b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**3500p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	**Leadp**	**18p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**820p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**12p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-22-4b	**Silverp**	**7.4p**	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**85p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

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Client ID: CHLL-GW 08 12'-17'p

Lab ID: 1406237-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	0.10b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*44.3 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*45.5 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**1800p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-38-2b	**Arsenicp**	**3.0p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**180p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**3.7p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-48-4b	Cobaltb	NDb	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**690p**	1.0b	ug/Lb	1b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**6800p**	20b	ug/Lb	1b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	**Leadp**	**7.6p**	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**320p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**9.4p**	2.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	1.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-22-4b	**Silverp**	**0.6p**	0.2b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**35p**	5.0b	ug/Lb	1b	07/01/14b	B4F1902b	6020/200.8b	

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TEL: (517) 335-9800O
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Client ID: CHLL-GW 35 6'-11'p

Lab ID: 1406237-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
591-78-6	2-Hexanoneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	20b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
107-13-1b	Acrylonitrileb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
71-43-2b	Benzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-86-1b	Bromobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-97-5b	Bromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-25-2b	Bromoformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-83-9b	Bromomethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-15-0b	Carbon disulfideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-90-7b	Chlorobenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-00-3b	Chloroethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-66-3b	Chloroformb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-87-3b	**Chloromethanep**	**26p**	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-82-7b	Cyclohexaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	

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Client ID: CHLL-GW 35 6'-11'p

Lab ID: 1406237-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
60-29-7b	Diethyl etherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-41-4b	Ethylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
67-72-1b	Hexachloroethaneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	2.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
74-88-4b	Methyl iodideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-09-2b	Methylene chlorideb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
91-20-3b	Naphthaleneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
95-47-6	o-Xyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
100-42-5b	Styreneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	50b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
108-88-3b	Tolueneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	5.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	A05b
79-01-6	Trichloroethyleneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
75-01-4b	Vinyl chlorideb	NDb	1.0b	ug/Lb	1b	06/24/14b	B4F2311b	8260b	
Surrogate: Bromofluorobenzene-			*92.9 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Dibromofluoromethane-			*101 %-*	*82.7-115-*		*06/24/14-*	B4F2311b	*8260-*	
Surrogate: Toluene-d8-			*89.4 %-*	*85-115-*		*06/24/14-*	B4F2311b	*8260-*	

Lab Work Order # 1406237b

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Client ID: CHLL-GW 35 6'-11'p

Lab ID: 1406237-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Semivolatilesp									
91-57-6	2-Methylnaphthalene	NDb	5.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
83-32-9b	Acenaphthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
208-96-8b	Acenaphthylene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
120-12-7b	Anthracene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
56-55-3b	Benz[a]anthracene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
218-01-9b	Chrysene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
206-44-0b	Fluoranthene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
86-73-7b	Fluorene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	2.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
91-20-3b	Naphthalene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
85-01-8b	Phenanthrene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
129-00-0b	Pyrene	NDb	1.0b	ug/Lb	1b	06/19/14b	B4F0405b	8270b	
Surrogate: 2-Fluorobiphenyl-			*55.9 %-*	*24.1-115-*		*06/19/14-*	B4F0405b	*8270-*	
Surrogate: Nitrobenzene-d5-			*68.8 %-*	*17.8-115-*		*06/19/14-*	B4F0405b	*8270-*	
Surrogate: p-Terphenyl-d14-			*80.9 %-*	*41.8-115-*		*06/19/14-*	B4F0405b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	0.12b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	0.12b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	0.12b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	0.12b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	0.12b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	0.12b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	0.12b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	0.12b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	0.12b	ug/Lb	1b	07/01/14b	B4F2701b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*40.8 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*47.7 %-*	*30-150-*		*07/01/14-*	B4F2701b	*8081/8082-*	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-GW 35 6'-11'p

Lab ID: 1406237-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**140000p**	50000b	ug/Lb	10000b	07/07/14b	B4F1902b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	10b	ug/Lb	10b	07/01/14b	B4F1902b	6020/200.8b	Ib
7440-38-2b	**Arsenicp**	**150p**	10b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	
7440-39-3b	**Bariump**	**3200p**	500b	ug/Lb	100b	07/03/14b	B4F1902b	6020/200.8b	
7440-41-7b	Berylliumb	NDb	10b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	Ib
7440-43-9b	**Cadmiump**	**6.8p**	2.0b	ug/Lb	10b	07/01/14b	B4F1902b	6020/200.8b	
7440-47-3b	**Chromiump**	**270p**	10b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	
7440-48-4b	**Cobaltp**	**130p**	50b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	
7440-50-8b	**Cop erp**	**37000p**	100b	ug/Lb	100b	07/03/14b	B4F1902b	6020/200.8b	
7439-89-6	**Ironp**	**180000p**	200b	ug/Lb	10b	06/26/14b	B4F1902b	6010/200.7b	
7439-92-1b	**Leadp**	**180p**	10b	ug/Lb	10b	07/01/14b	B4F1902b	6020/200.8b	
7439-96-5b	**Manganesep**	**10000p**	5000b	ug/Lb	1000b	07/07/14b	B4F1902b	6020/200.8b	
7439-97-6	**Mercuryp**	**7.1p**	0.2b	ug/Lb	1b	06/25/14b	B4F2308b	7470/245.1b	
7440-02-0b	**Nickelp**	**450p**	20b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	10b	ug/Lb	10b	07/01/14b	B4F1902b	6020/200.8b	Ib
7440-22-4b	**Silverp**	**33p**	2.0b	ug/Lb	10b	07/01/14b	B4F1902b	6020/200.8b	
7440-66-6	**Zincp**	**920p**	50b	ug/Lb	10b	07/03/14b	B4F1902b	6020/200.8b	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	1406237
Project Name	Abandoned Mining Waste- Torch Lake PCB
Matrix	WATER
Site Code/Project Number	31000098
AY	14
CC Email 1 to send additional reports to	shireyb
Project TAT Days	
Sample Collector	Jeff Pincumbe
Dept-Division-District	RRD-PSS-GSU
Index	44031
CC Email 2 to send additional reports to	j.binkley@westonsolutions.com
Project Due Date	
Sample Collector Phone	517-335-6418
State Project Manager	Jeff Pincumbe
PCA	30740
CC Email 3 to send additional reports to	kerancnac michigan.gov
Contract Firm	Weston Solutions
State Project Manager Email	pincumbej
Project	456990
Overflow Lab Choice 1	
Accept Analysis hold time codes: Yes/No	NO
Contract Firm Primary Contact	Jeff Binkley
State Project Manager Phone	517-335-6418
Phase	0
Overflow Lab Choice 2	
Primary Contact Phone	906 523 5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-GW ~~01~~ 17 10-15' dup	6-13-14	0940		
2	02	CHLL-GW 16 8'-13'	6-13-14	1025		
3	03	CHLL-GW 15 10'-15'	6-13-14	1245		
4	04	CHLL-GW 01 7'-12'	6/13/14	1545		
5	05	CHLL-GW 11 10'-15'	6/14/14	0950		
6	06	CHLL-GW ~~55~~ DL 38 10'-15'	6/14/14	1100		
7	07	CHLL-GW 10 - 12'-17'	6/14/14	1125		
8	08	CHLL-GW 09 - 12'-17'	6/14/14	1500		
9	09	CHLL-GW 08 12'-17'	6/14/14	1540		
10	10	CHLL-GW 35 6'-11'	6/14/14	1620		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic	
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10
METH - Methane, Ethane, Ethene	
Methane, Ethane, Ethene	1 2 3 4 5 6 7 8 9 10
ON - Pesticides, PCBs	
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10
Specialty Pesticides	1 2 3 4 5 6 7 8 9 10
BNA - Base Neutral Acids	
BNAs	1 2 3 4 5 6 7 8 9 10
Benzidines	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10
Acids only	1 2 3 4 5 6 7 8 9 10
Organic Specialty Requests	
Library search-Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search-SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total	1 2 3 4 5 6 7 8 9 10
OpMemo2 - Dissolved	1 2 3 4 5 6 7 8 9 10
(Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	
Michigan10 - Total	1 2 3 4 5 6 7 8 9 10
Michigan10 - Dissolved	1 2 3 4 5 6 7 8 9 10
(As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	

MAD - DISSOLVED METALS

Diss - Silver - Ag	1 2 3 4 5 6 7 8 9 10
Diss - Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Diss - Arsenic - As	1 2 3 4 5 6 7 8 9 10
Diss - Boron - B	1 2 3 4 5 6 7 8 9 10
Diss - Barium - Ba	1 2 3 4 5 6 7 8 9 10
Diss - Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Diss - Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Diss - Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Diss - Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Diss - Copper - Cu	1 2 3 4 5 6 7 8 9 10
Diss - Iron - Fe	1 2 3 4 5 6 7 8 9 10
Diss - Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Diss - Lithium - Li	1 2 3 4 5 6 7 8 9 10
Diss - Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Diss - Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Diss - Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Diss - Lead - Pb	1 2 3 4 5 6 7 8 9 10
Diss - Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Diss - Selenium - Se	1 2 3 4 5 6 7 8 9 10
Diss - Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Diss - Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Diss - Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Diss - Vanadium - V	1 2 3 4 5 6 7 8 9 10
Diss - Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Diss - Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Diss - Potassium - K	1 2 3 4 5 6 7 8 9 10
Diss - Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Diss - Sodium - Na	1 2 3 4 5 6 7 8 9 10
Diss - Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10
MD - Metals Dissolved	
Lab Filtration	1 2 3 4 5 6 7 8 9 10

MA - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Boron - B	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10
Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10
LHG - Low Level Mercury	
Mercury Low Level - Hg	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GB - General Basic	
Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Amenable Cyanide - CN	1 2 3 4 5 6 7 8 9 10
GCN - General Cyanide	
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
CA - Chlorophyll	
Chlorophyll	1 2 3 4 5 6 7 8 9 10
GN - General Chemistry Neutral	
Ortho Phosphate - OP	1 2 3 4 5 6 7 8 9 10
Nitrite - NO_2	1 2 3 4 5 6 7 8 9 10
Nitrate - NO_3 (Calc.)	1 2 3 4 5 6 7 8 9 10
Suspended Solids - SS	1 2 3 4 5 6 7 8 9 10
Disolved Solids - TDS	1 2 3 4 5 6 7 8 9 10
Turbidity	1 2 3 4 5 6 7 8 9 10
MN - Inorganic Matrix Neutral	
Total Alkalinity	1 2 3 4 5 6 7 8 9 10
Bicarb/Carb Alkalinity (includes Total Alkalinity)	1 2 3 4 5 6 7 8 9 10
Chloride - Cl	1 2 3 4 5 6 7 8 9 10
Sulfate - SO_4	1 2 3 4 5 6 7 8 9 10
Chromium 6 - Cr^{+6}	1 2 3 4 5 6 7 8 9 10
Conductivity	1 2 3 4 5 6 7 8 9 10
pH	1 2 3 4 5 6 7 8 9 10
GA - General Chemistry Acidic	
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Diss Org Carbon - DOC	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Ammonia - NH_3	1 2 3 4 5 6 7 8 9 10
Nitrate+Nitrite - NO_3+NO_2	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 9:57
Signature:			
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909O
TEL: (517) 335-9800O
FAX: (517) 335-9600O

22 July 2014O

Work Order: 1406233O

Price: $8,907.00O

Jeff PincumbeO
MDEQ-RRD-LANSINGO
525 W. Allegan StreetO
Lansing, MI 48909O

RE: ABANDONED MINING WASTE-TORCH LAKE PCBO

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods O approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.O

Sincerely, O

George KrisztianO
Laboratory DirectorO

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
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Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

MDEQ-RRD-LANSINGb
525 W. Allegan Streetb
Lansing MI, 48909b

Project:bABANDONED MINING WASTE-TORCH LAKE PCBb
Site Code:b31000098b
Project Manager:bJeff Pincumbeb

Reported:p
07/22/2014b

Analytical Report for Samplesp

Sample IDp	Laboratory IDp	Matrixp	Date Sampledp	Date Receivedp	Qualifierp
CHLL-SB 18 4"-12"b	1406233-01b	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 18 1'-4'b	1406233-02b	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 17 0"-6"b	1406233-03b	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 17 3'-5'b	1406233-04b	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 20 6"-12"b	1406233-05b	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 20 3'-6'b	1406233-06	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 19 0"-6"b	1406233-07b	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 19 1'-5'b	1406233-08b	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 19 1'-5' Dupb	1406233-09b	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 50 0"-12"b	1406233-10b	Soil/Sedimentb	06/14/2014b	06/18/2014b	
CHLL-SB 51 0"-6"b	1406233-11b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 51 6"-5'b	1406233-12b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 57 0"-6"b	1406233-13b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 57 6"-36"b	1406233-14b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 14 0"-6"b	1406233-15b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 14 6"-36"b	1406233-16	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 06 0"-6"b	1406233-17b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 06 6"-48"b	1406233-18b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 13 3"-9"b	1406233-19b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 13 9"-96"b	1406233-20b	Soil/Sedimentb	06/15/2014b	06/18/2014b	

Lab Work Order # 1406233b

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Notes and Definitions p

Y21b	Reporting Limits (RL) raised due to matrix interference.b
Y20b	Reporting Limits (RL) raised due to matrix.b
X3b	Spike recovery is not applicable due to large target analyte concentration in the source sample.b
Xb	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 ºC. 2-Methylnaphthalene & naphthalene b have boiling points above 200 ºC and are better suited to analysis by methods 8270 & 625 as semivolatile organics.b
Tb	Reported value is less than the reporting limit (RL). Result is estimated.b
A11b	Result is estimated due to high initial verification standard criteria failure.b
A09b	Result is estimated due to high recovery of batch quality control. b
A07b	Result(s) and reporting limit(s) are estimated due to poor precision. b
A06	Result is estimated due to high continuing calibration standard criteria failure. b
A05b	Result and reporting limit are estimated due to low continuing calibration standard criteria failure. b
A04b	Result is estimated due to high matrix spike recovery. b
A03b	Result(s) and reporting limit(s) are estimated due to low matrix spike recovery. b
NDb	Indicates compound analyzed for but not detected b
RLb	Reporting Limit b
NAb	Not Applicable b
dry	Sample results reported on a dry weight basis b

STATE OF MICHIGAN
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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-SB 18 4''-12''p

Lab ID: 1406233-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*75.1 %-*	*30-150-*		*07/14/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*65.0 %-*	*30-150-*		*07/14/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**95.0p**	0.1b	%b	1b	06/19/14b	B4F1911b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5200p**	100b	mg/kg dryb	1000b	07/07/14b	B4F2302b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.2p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2302b	6020/200.8b	
7440-39-3b	**Bariump**	**14p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2302b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-47-3b	**Chromiump**	**13p**	2.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-48-4b	**Cobaltp**	**7.3p**	0.5b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-50-8b	**Cop erp**	**6300p**	100b	mg/kg dryb	1000b	07/07/14b	B4F2302b	6020/200.8b	
7439-89-6	**Ironp**	**9400p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2302b	6010/200.7b	
7439-92-1b	**Leadp**	**3.5p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2302b	6020/200.8b	
7439-96-5b	**Manganesep**	**190p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4F3016	7471/245.5b	
7440-02-0b	**Nickelp**	**17p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-22-4b	**Silverp**	**3.1p**	0.1b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-66-6	**Zincp**	**53p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	

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Lansing, MI 48909
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Client ID: CHLL-SB 18 1'-4'p

Lab ID: 1406233-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*76.9 %-*	*30-150-*		*07/14/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*66.3 %-*	*30-150-*		*07/14/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**93.7p**	0.1b	%b	1b	06/19/14b	B4F1911b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5000p**	100b	mg/kg dryb	1000b	07/07/14b	B4F2302b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-39-3b	**Bariump**	**9.4p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2302b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-47-3b	**Chromiump**	**13p**	2.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-48-4b	**Cobaltp**	**6.7p**	0.5b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-50-8b	**Cop erp**	**4300p**	100b	mg/kg dryb	1000b	07/07/14b	B4F2302b	6020/200.8b	
7439-89-6	**Ironp**	**9900p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2302b	6010/200.7b	
7439-92-1b	**Leadp**	**2.9p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2302b	6020/200.8b	
7439-96-5b	**Manganesep**	**180p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4F3016	7471/245.5b	
7440-02-0b	**Nickelp**	**16p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-22-4b	**Silverp**	**3.4p**	0.1b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-66-6	**Zincp**	**52p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	

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Client ID: CHLL-SB 17 0''-6''p

Lab ID: 1406233-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*88.5 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*75.1 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**83.1p**	0.1b	%b	1b	06/19/14b	B4F1911b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**8000p**	100b	mg/kg dryb	1000b	07/07/14b	B4F2302b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.4p**	0.5b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-39-3b	**Bariump**	**21p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.6p**	0.2b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2302b	6020/200.8b	
7440-47-3b	**Chromiump**	**17p**	2.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.3p**	0.5b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-50-8b	**Cop erp**	**330p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7439-89-6	**Ironp**	**16000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2302b	6010/200.7b	
7439-92-1b	**Leadp**	**5.6p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7439-96-5b	**Manganesep**	**250p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	A04b
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4F3016	7471/245.5b	
7440-02-0b	**Nickelp**	**20p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-22-4b	**Silverp**	**0.7p**	0.1b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	
7440-66-6	**Zincp**	**46p**	1.0b	mg/kg dryb	10b	07/03/14b	B4F2302b	6020/200.8b	

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Client ID: CHLL-SB 17 3'-5'p

Lab ID: 1406233-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*82.0 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*68.9 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**90.0p**	0.1b	%b	1b	06/19/14b	B4F1911b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6300p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.3p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**45p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**19p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.7p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**4100p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**11000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**4.9p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**260p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4F3016	7471/245.5b	
7440-02-0b	**Nickelp**	**23p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.2p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**1.8p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**55p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 20 6''-12''p

Lab ID: 1406233-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note Y21p**
12674-11-2b	Aroclor 1016	NDb	210b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	210b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	210b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	210b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	210b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	210b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	470b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	470b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	210b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*84.1 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*67.5 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solids**	**93.7p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	

Lab Work Order # 1406233b

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Client ID: CHLL-SB 20 3'-6'p

Lab ID: 1406233-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*93.7 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*85.4 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**95.0p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	

Lab Work Order # 1406233b

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FAX: (517) 335-9600O

Client ID: CHLL-SB 19 0''-6''p

Lab ID: 1406233-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note Y21p**
12674-11-2b	Aroclor 1016	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*90.2 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*89.5 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solids**	**88.4p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	

Lab Work Order # 1406233b

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Client ID: CHLL-SB 19 1'-5'p

Lab ID: 1406233-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note Y21p**
12674-11-2b	Aroclor 1016	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	340b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	340b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*81.6 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*72.7 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solids**	**87.0p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	

Lab Work Order # 1406233b

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Client ID: CHLL-SB 19 1'-5' Dup

Lab ID: 1406233-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note Y21p**
12674-11-2b	Aroclor 1016	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*61.2 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*68.2 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solids**	**85.9p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	

Lab Work Order # 1406233b

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Client ID: CHLL-SB 50 0''-12''p

Lab ID: 1406233-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-PCBs as Aroclorsp									**See note Y21p**
12674-11-2b	Aroclor 1016	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	230b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*66.2 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*78.2 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**87.3p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	**Total Cyanidep**	**0.12p**	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**9900p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.3p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**19p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**22p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**13p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**730p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**17000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**26p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**350p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.1p**	0.06	mg/kg dryb	1b	07/09/14b	B4F3016	7471/245.5b	
7440-02-0b	**Nickelp**	**31p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.2p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**0.5p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**55p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 51 0''-6''p

Lab ID: 1406233-11p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	570b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
83-32-9b	Acenaphthene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
208-96-8b	Acenaphthylene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
120-12-7b	Anthracene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
56-55-3b	**Benz[a]anthracene**	**230p**	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	450b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
205-99-2b	**Benzo[b]fluoranthene**	**460p**	450b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	450b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	450b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
218-01-9b	**Chrysene**	**310p**	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	450b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
206-44-0b	**Fluoranthene**	**400p**	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
86-73-7b	Fluorene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	450b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
91-20-3b	Naphthalene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
85-01-8b	Phenanthrene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
129-00-0b	**Pyrene**	**360p**	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*57.6 %-*	*32.9-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*68.4 %-*	*31.8-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*65.1 %-*	*38.5-115-*		*06/30/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*81.3 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*72.1 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	

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Client ID: CHLL-SB 51 0''-6''p

Lab ID: 1406233-11p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**88.1p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**7000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	**Antimonyp**	**0.3p**	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	
7440-38-2b	**Arsenicp**	**8.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**76p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.7p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.2p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**15p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**5.9p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**1300p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**13000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**140p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**280p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.2p**	0.06	mg/kg dryb	1b	07/09/14b	B4F3016	7471/245.5b	
7440-02-0b	**Nickelp**	**17p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.3p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**0.7p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**70p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 51 6''-5'p

Lab ID: 1406233-12p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
591-78-6	2-Hexanoneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1200b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-13-1b	Acrylonitrileb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-43-2b	Benzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-86-1b	Bromobenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-97-5b	Bromochloromethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-25-2b	Bromoformb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-83-9b	Bromomethaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-15-0b	Carbon disulfideb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-90-7b	Chlorobenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-00-3b	Chloroethaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-66-3b	Chloroformb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-87-3b	Chloromethaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-82-7b	Cyclohexaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	

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Client ID: CHLL-SB 51 6''-5'p

Lab ID: 1406233-12p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
60-29-7b	Diethyl etherb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-41-4b	Ethylbenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-72-1b	Hexachloroethaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	120b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-88-4b	Methyl iodideb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-09-2b	Methylene chlorideb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-20-3b	Naphthaleneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-47-6	o-Xyleneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-42-5b	Styreneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3100b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-88-3b	Tolueneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-01-6	Trichloroethyleneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-01-4b	Vinyl chlorideb	NDb	62b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
Surrogate: Bromofluorobenzene-			*153 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Dibromofluoromethane-			*162 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Toluene-d8-			*146 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	

Lab Work Order # 1406233b

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Client ID: CHLL-SB 51 6''-5'p

Lab ID: 1406233-12p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	550b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
83-32-9b	Acenaphthene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
208-96-8b	Acenaphthylene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
120-12-7b	Anthracene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
56-55-3b	Benz[a]anthracene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
218-01-9b	Chrysene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
206-44-0b	Fluoranthene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
86-73-7b	Fluorene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
91-20-3b	Naphthalene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
85-01-8b	Phenanthrene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
129-00-0b	Pyrene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*54.6 %-*	*32.9-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*65.0 %-*	*31.8-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*61.5 %-*	*38.5-115-*		*06/30/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*69.0 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*61.3 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	

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Client ID: CHLL-SB 51 6''-5'p

Lab ID: 1406233-12p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**91.1p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**3800p**	10b	mg/kg dryb	100b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	**Antimonyp**	**2.6p**	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.7p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**37p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.3p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**8.1p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**3.3p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**140p**	10b	mg/kg dryb	100b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**7900p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**1700p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**170p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.3p**	0.05b	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**8.4p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**0.2p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**19p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 57 0''-6''p

Lab ID: 1406233-13p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*80.1 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*82.6 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**89.2p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	**Total Cyanidep**	**0.75p**	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**12000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**22p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.5p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**27p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**15p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**890p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**19000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**8.2p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**370p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**29p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**0.9p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**63p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 57 6''-36''p

Lab ID: 1406233-14p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	590b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
83-32-9b	Acenaphthene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
208-96-8b	Acenaphthylene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
120-12-7b	Anthracene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
56-55-3b	Benz[a]anthracene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
218-01-9b	Chrysene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
206-44-0b	Fluoranthene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
86-73-7b	Fluorene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	470b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
91-20-3b	**Naphthalene**	**230p**	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
85-01-8b	Phenanthrene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
129-00-0b	Pyrene	NDb	230b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*66.1 %-*	*32.9-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*79.1 %-*	*31.8-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*79.9 %-*	*38.5-115-*		*06/30/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	120b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*71.2 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*59.0 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	

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Lab ID: 1406233-14p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**85.4p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	

Lab Work Order # 1406233b

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Client ID: CHLL-SB 14 0''-6''p

Lab ID: 1406233-15p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	550b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
83-32-9b	Acenaphthene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
208-96-8b	Acenaphthylene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
120-12-7b	Anthracene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
56-55-3b	Benz[a]anthracene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
218-01-9b	Chrysene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
206-44-0b	Fluoranthene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
86-73-7b	Fluorene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
91-20-3b	Naphthalene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
85-01-8b	Phenanthrene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
129-00-0b	Pyrene	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*58.9 %-*	*32.9-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*65.8 %-*	*31.8-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*66.0 %-*	*38.5-115-*		*06/30/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*82.6 %-*	*30-150-*		*07/14/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*80.4 %-*	*30-150-*		*07/14/14-*	B4G0321b	*8081/8082-*	

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Client ID: CHLL-SB 14 0''-6''p

Lab ID: 1406233-15p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**91.6p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	**Total Cyanidep**	**0.25p**	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**14000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.3p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**13p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**29p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**18p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**1500p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**21000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**7.6p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**360p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**29p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**0.7p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**58p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 14 6''-36''p

Lab ID: 1406233-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
591-78-6	2-Hexanoneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1200b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-13-1b	Acrylonitrileb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-43-2b	Benzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-86-1b	Bromobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-97-5b	Bromochloromethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-25-2b	Bromoformb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-83-9b	Bromomethaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-15-0b	Carbon disulfideb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-90-7b	Chlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-00-3b	Chloroethaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-66-3b	Chloroformb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-87-3b	Chloromethaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-82-7b	Cyclohexaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	

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Client ID: CHLL-SB 14 6''-36''p

Lab ID: 1406233-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
60-29-7b	Diethyl ether	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-20-3b	Diisopropyl Ether	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-41-4b	Ethylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-72-1b	Hexachloroethane	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-82-8b	Isopropylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1330-20-7b	m & p - Xylene	NDb	120b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-88-4b	Methyl iodide	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-09-2b	Methylene chloride	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-20-3b	Naphthalene	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
103-65-1b	n-Propylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-47-6	o-Xylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
99-87-6	p-Isopropyl toluene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
135-98-8b	sec-Butylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-42-5b	Styrene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-06-6	tert-Butylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	3000b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
127-18-4b	Tetrachloroethylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
109-99-9b	Tetrahydrofuran	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-88-3b	Toluene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-01-6	Trichloroethylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-01-4b	Vinyl chloride	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
Surrogate: Bromofluorobenzene-			*146 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Dibromofluoromethane-			*149 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Toluene-d8-			*135 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	

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Client ID: CHLL-SB 14 6''-36''p

Lab ID: 1406233-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	550b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
120-12-7b	**Anthracenep**	**460p**	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
56-55-3b	**Benz[a]anthracenep**	**2300p**	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
50-32-8b	**Benzo[a]pyrenep**	**2400p**	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
205-99-2b	**Benzo[b]fluoranthenep**	**3100p**	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
191-24-2b	**Benzo[g,h,i]perylenep**	**1300p**	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
207-08-9b	**Benzo[k]fluoranthenep**	**1100p**	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
218-01-9b	**Chrysenep**	**2600p**	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
206-44-0b	**Fluoranthenep**	**6800p**	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
193-39-5b	**Indeno(1,2,3-c,d)pyrenep**	**1200p**	440b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
91-20-3b	**Naphthalenep**	**200p**	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	Tb
85-01-8b	**Phenanthrenep**	**3400p**	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
129-00-0b	**Pyrenep**	**5600p**	220b	ug/kg dryb	1b	06/30/14b	B4F1922b	8270b	
Surrogate: 2-Fluorobiphenyl-			*58.4 %-*	*32.9-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: Nitrobenzene-d5-			*70.3 %-*	*31.8-115-*		*06/30/14-*	B4F1922b	*8270-*	
Surrogate: p-Terphenyl-d14-			*68.8 %-*	*38.5-115-*		*06/30/14-*	B4F1922b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	350b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	Y21b
37324-23-5b	Aroclor 1262	NDb	350b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	Y21b
11100-14-4b	Aroclor 1268	NDb	110b	ug/kg dryb	1b	07/14/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*75.3 %-*	*30-150-*		*07/14/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*77.5 %-*	*30-150-*		*07/14/14-*	B4G0321b	*8081/8082-*	

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Client ID: CHLL-SB 14 6''-36''p

Lab ID: 1406233-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**91.0p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**9200p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/07/14b	B4F2306	6020/200.8b	A03b
7440-38-2b	**Arsenicp**	**14p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**39p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.5p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.2p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**21p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**9.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**7600p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**16000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**110p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**260p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.08p**	0.05b	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**22p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.3p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**3.6p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**83p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 06 0''-6''p

Lab ID: 1406233-17p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	570b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluorantheneb	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluorantheneb	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
206-44-0b	Fluorantheneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
91-20-3b	Naphthaleneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl-			*61.7 %-*	*32.9-115-*		*07/02/14-*	B4F2513b	*8270-*	
Surrogate: Nitrobenzene-d5-			*76.2 %-*	*31.8-115-*		*07/02/14-*	B4F2513b	*8270-*	
Surrogate: p-Terphenyl-d14-			*69.3 %-*	*38.5-115-*		*07/02/14-*	B4F2513b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0321b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*76.1 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*74.3 %-*	*30-150-*		*07/15/14-*	B4G0321b	*8081/8082-*	

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Client ID: CHLL-SB 06 0''-6''p

Lab ID: 1406233-17p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**87.5p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/25/14b	B4F2317b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**4600p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**22p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.6p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**12p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**5.4p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**520p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**6.3p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**180p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**13p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**0.6p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**38p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 06 6''-48''p

Lab ID: 1406233-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
591-78-6	2-Hexanoneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1200b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
107-13-1b	Acrylonitrileb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
71-43-2b	Benzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-86-1b	Bromobenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
74-97-5b	Bromochloromethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-25-2b	Bromoformb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
74-83-9b	Bromomethaneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-15-0b	Carbon disulfideb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-90-7b	Chlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-00-3b	Chloroethaneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
67-66-3b	Chloroformb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
74-87-3b	Chloromethaneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
110-82-7b	Cyclohexaneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	

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Client ID: CHLL-SB 06 6''-48''p

Lab ID: 1406233-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
60-29-7b	Diethyl etherb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
100-41-4b	Ethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
67-72-1b	Hexachloroethaneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	120b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
74-88-4b	Methyl iodideb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-09-2b	Methylene chlorideb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
91-20-3b	Naphthaleneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
95-47-6	o-Xyleneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
100-42-5b	Styreneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3100b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-88-3b	Tolueneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	310b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
79-01-6	Trichloroethyleneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-01-4b	Vinyl chlorideb	NDb	61b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
Surrogate: Bromofluorobenzene-			*156 %-*	*50-150-*		*06/21/14-*	B4F2101b	*8260-*	
Surrogate: Dibromofluoromethane-			*166 %-*	*50-150-*		*06/21/14-*	B4F2101b	*8260-*	
Surrogate: Toluene-d8-			*148 %-*	*50-150-*		*06/21/14-*	B4F2101b	*8260-*	

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Client ID: CHLL-SB 06 6''-48''p

Lab ID: 1406233-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	560b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
83-32-9b	Acenaphthene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
208-96-8b	Acenaphthylene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
120-12-7b	Anthracene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
56-55-3b	**Benz[a]anthracene**	**290p**	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
218-01-9b	**Chrysene**	**320p**	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
206-44-0b	**Fluoranthene**	**530p**	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
86-73-7b	Fluorene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
91-20-3b	Naphthalene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
85-01-8b	Phenanthrene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
129-00-0b	**Pyrene**	**440p**	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl-			*53.8 %-*	*32.9-115-*		*07/02/14-*	B4F2513b	*8270-*	
Surrogate: Nitrobenzene-d5-			*69.0 %-*	*31.8-115-*		*07/02/14-*	B4F2513b	*8270-*	
Surrogate: p-Terphenyl-d14-			*68.4 %-*	*38.5-115-*		*07/02/14-*	B4F2513b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*78.8 %-*	*30-150-*		*07/15/14-*	B4G0814b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*63.8 %-*	*30-150-*		*07/15/14-*	B4G0814b	*8081/8082-*	

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Client ID: CHLL-SB 06 6''-48''p

Lab ID: 1406233-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**89.5p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**18000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.8p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**48p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**27p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**15p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**2800p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**19000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**20p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**460p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**45p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**1.4p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**77p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 13 3''-9''p

Lab ID: 1406233-19p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	520b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
83-32-9b	Acenaphthene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
208-96-8b	Acenaphthylene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
120-12-7b	Anthracene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthracene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	420b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	420b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	420b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	420b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
218-01-9b	Chrysene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	420b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
206-44-0b	Fluoranthene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
86-73-7b	Fluorene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	420b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
91-20-3b	Naphthalene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
85-01-8b	Phenanthrene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
129-00-0b	Pyrene	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl-			*57.0 %-*	*32.9-115-*		*07/02/14-*	B4F2513b	*8270-*	
Surrogate: Nitrobenzene-d5-			*71.1 %-*	*31.8-115-*		*07/02/14-*	B4F2513b	*8270-*	
Surrogate: p-Terphenyl-d14-			*64.3 %-*	*38.5-115-*		*07/02/14-*	B4F2513b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	100b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	100b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	100b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	100b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	100b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	100b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	100b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	100b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	100b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*72.6 %-*	*30-150-*		*07/15/14-*	B4G0814b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*62.7 %-*	*30-150-*		*07/15/14-*	B4G0814b	*8081/8082-*	

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-SB 13 3''-9''p

Lab ID: 1406233-19p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**95.4p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.10b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**0.6p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**18p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.7p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**18p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.4p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**1600p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**11000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**4.8p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**220p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.1p**	0.05b	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**22p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**2.1p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**63p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 13 9''-96''p

Lab ID: 1406233-20p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
591-78-6	2-Hexanoneb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1200b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
107-13-1b	Acrylonitrileb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
71-43-2b	Benzeneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-86-1b	Bromobenzeneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
74-97-5b	Bromochloromethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-25-2b	Bromoformb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
74-83-9b	Bromomethaneb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-15-0b	Carbon disulfideb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-90-7b	Chlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-00-3b	Chloroethaneb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
67-66-3b	Chloroformb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
74-87-3b	Chloromethaneb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
110-82-7b	Cyclohexaneb	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	

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Client ID: CHLL-SB 13 9''-96''p

Lab ID: 1406233-20p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
60-29-7b	Diethyl ether	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-20-3b	Diisopropyl Ether	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
100-41-4b	Ethylbenzene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
67-72-1b	Hexachloroethane	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
98-82-8b	Isopropylbenzene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
1330-20-7b	m & p - Xylene	NDb	120b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
74-88-4b	Methyl iodide	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-09-2b	Methylene chloride	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
91-20-3b	Naphthalene	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
103-65-1b	n-Propylbenzene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
95-47-6	o-Xylene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
99-87-6	p-Isopropyl toluene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
135-98-8b	sec-Butylbenzene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
100-42-5b	Styrene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
98-06-6	tert-Butylbenzene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	3000b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
127-18-4b	Tetrachloroethylene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
109-99-9b	Tetrahydrofuran	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
108-88-3b	Toluene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	300b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
79-01-6	Trichloroethylene	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
75-01-4b	Vinyl chloride	NDb	60b	ug/kg dryb	50b	06/21/14b	B4F2101b	8260b	
Surrogate: Bromofluorobenzene-			*142 %-*	*50-150-*		*06/21/14-*	B4F2101b	*8260-*	
Surrogate: Dibromofluoromethane-			*160 %-*	*50-150-*		*06/21/14-*	B4F2101b	*8260-*	
Surrogate: Toluene-d8-			*139 %-*	*50-150-*		*06/21/14-*	B4F2101b	*8260-*	

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Client ID: CHLL-SB 13 9''-96''p

Lab ID: 1406233-20p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	550b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthenebb	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthenebb	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
206-44-0b	Fluoranthenebb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
91-20-3b	Naphthaleneb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl-			*66.6 %-*	*32.9-115-*		*07/02/14-*	B4F2513b	*8270-*	
Surrogate: Nitrobenzene-d5-			*81.7 %-*	*31.8-115-*		*07/02/14-*	B4F2513b	*8270-*	
Surrogate: p-Terphenyl-d14-			*74.6 %-*	*38.5-115-*		*07/02/14-*	B4F2513b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/15/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*70.3 %-*	*30-150-*		*07/15/14-*	B4G0814b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*56.7 %-*	*30-150-*		*07/15/14-*	B4G0814b	*8081/8082-*	

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Lab ID: 1406233-20p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**90.9p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**7800p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**0.9p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**21p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**22p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**10p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**1200p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**14000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**10p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**270p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**28p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**2.3p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**67p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406233	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Keranena@michigan.gov		Contract Firm: WESTON SOLUTIONS
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: JEFF BINKLEY
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-SB 18 4"-12"	6-14-14	1335		
2	02	CHLL-SB 18 1'-4'	6-14-14	1337		
3	03	CHLL-SB 17 0"-6"	6-14-14	1355		
4	04	CHLL-SB 17 3'-5'	6-14-14	1400		
5	05	CHLL-SB 20 6"-12"	6/14/14	1450		
6	06	CHLL-SB 20 3'-6'	6/14/14	1455		
7	07	CHLL-SB 19 0"-6"	6/14/14	1520		
8	08	CHLL-SB 19 1'-5'	6/14/14	1525		
9	09	CHLL-SB 19 1-5' Dup	6/14/14	1525		
10	10	CHLL-SB 50 0"-12"	6/14/14	1610		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 945
Signature:			
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	1406233
Project Name	Abandoned Mining Waste- Torch Lake PCB
Matrix	SOIL/SEDIMENT
Site Code/Project Number	31000098
AY	14
CC Email 1 to send additional reports to	shireyb
Project TAT Days	
Sample Collector	Jeff Pincumbe
Dept-Division-District	RRD-PSS-GSU
Index	44031
CC Email 2 to send additional reports to	j.binkley@westonsolutions.com
Project Due Date	
Sample Collector Phone	517-335-6418
State Project Manager	Jeff Pincumbe
PCA	30740
CC Email 3 to send additional reports to	keranena@michigan.gov
Contract Firm	WESTON SOLUTIONS
State Project Manager Email	pincumbej
Project	456990
Overflow Lab Choice 1	
Accept Analysis hold time codes: Yes/No	NO
Contract Firm Primary Contact	JEFF BINKLEY
State Project Manager Phone	517-335-6418
Phase	0
Overflow Lab Choice 2	
Primary Contact Phone	906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	11	CHLL-SB 51 - 0"-6"	6/15/14	0840		
2	12	CHLL-SB 51 - 6"-51	6/15/14	0840		
3	13	CHLL-SB 57 - 0-6"	6-15-14	1040		
4	14	CHLL-SB 57 - 6"-36"	6-15-14	1045		
5	15	CHLL-SB 14 - 0-6"	6-15-14	1310		
6	16	CHLL-SB 14 - 6"-36"	6-15-14	1310		
7	17	CHLL-SB 06 - 0-6"	"	1345		
8	18	CHLL-SB 06 - 6"-48"	"	1350		
9	19	CHLL-SB 13 - 3"-9"	6/15/14	1405		
10	20	CHLL-SB 13 - 9"-96"	6/15/14	1410		

ORGANIC CHEMISTRY

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Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
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Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

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Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 945
Signature:			
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909O
TEL: (517) 335-9800O
FAX: (517) 335-9600O

22 July 2014O

Work Order: 1406234O

Price: $10,632.50O

Jeff PincumbeO
MDEQ-RRD-LANSINGO
525 W. Allegan StreetO
Lansing, MI 48909O

RE: ABANDONED MINING WASTE-TORCH LAKE PCBO

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods O approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.O

Sincerely, O

George KrisztianO
Laboratory DirectorO

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

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Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

MDEQ-RRD-LANSINGb
525 W. Allegan Streetb
Lansing MI, 48909b

Project:bABANDONED MINING WASTE-TORCH LAKE PCBb
Site Code:b31000098b
Project Manager:bJeff Pincumbeb

Reported:p
07/22/2014b

Analytical Report for Samplesp

Sample IDp	Laboratory IDp	Matrixp	Date Sampledp	Date Receivedp	Qualifierp
CHLL-SB 15 3-9"b	1406234-01b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 15 9"-5'b	1406234-02b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 15 9"-5' Dupb	1406234-03b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 05 0"-6"b	1406234-04b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 05 6"-48"b	1406234-05b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 10 6"-48"b	1406234-06	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 10 48"-96"b	1406234-07b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 10 0"-6"b	1406234-08b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 16 0"-6"b	1406234-09b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 16 6"-6'b	1406234-10b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 16 6'-12'b	1406234-11b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 09 0-6"b	1406234-12b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 09 6"-6'b	1406234-13b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 09 6'-12'b	1406234-14b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 11 0-6"b	1406234-15b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 11 6"-8'b	1406234-16	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 11 6"-8' Dupb	1406234-17b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 11 8'-16'b	1406234-18b	Soil/Sedimentb	06/15/2014b	06/18/2014b	
CHLL-SB 08 0-6"b	1406234-19b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 08 0-6" Dupb	1406234-20b	Soil/Sedimentb	06/16/2014b	06/18/2014b	

Lab Work Order # 1406234b

STATE OF MICHIGAN
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ENVIRONMENTAL LABORATORYC

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Lansing, MI 48909
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FAX: (517) 335-9600O

Notes and Definitions p

Y20b	Reporting Limits (RL) raised due to matrix.b
X3b	Spike recovery is not applicable due to large target analyte concentration in the source sample.b
Xb	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 ºC. 2-Methylnaphthalene & naphthalene b have boiling points above 200 ºC and are better suited to analysis by methods 8270 & 625 as semivolatile organics.b
A12b	Result is estimated due to inter-replicate sample analysis RSD > 10%.b
A11b	Result is estimated due to high initial verification standard criteria failure.b
A09b	Result is estimated due to high recovery of batch quality control.b
A07b	Result(s) and reporting limit(s) are estimated due to poor precision. b
A06	Result is estimated due to high continuing calibration standard criteria failure. b
A05b	Result and reporting limit are estimated due to low continuing calibration standard criteria failure. b
A04b	Result is estimated due to high matrix spike recovery. b
A03b	Result(s) and reporting limit(s) are estimated due to low matrix spike recovery. b
100b	Sample extracted past hold time due to instrument failure. Data is estimated. b
NDb	Indicates compound analyzed for but not detected b
RLb	Reporting Limit b
NAb	Not Applicable b
dry	Sample results reported on a dry weight basis b

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P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-SB 15 3-9''p

Lab ID: 1406234-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	540b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	430b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthenebb	NDb	430b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	430b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthenebb	NDb	430b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	430b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
206-44-0b	Fluoranthenebb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	430b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
91-20-3b	Naphthaleneb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	210b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*59.4 %.*	*32.9-115.*		*07/02/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*74.4 %.*	*31.8-115.*		*07/02/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*68.6 %.*	*38.5-115.*		*07/02/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*70.7 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*57.2 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

Lab Work Order # 1406234b

STATE OF MICHIGAN
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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-SB 15 3-9''p

Lab ID: 1406234-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**93.1p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5700p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**40p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.7p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**14p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**7.0p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**770p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**32p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**240p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.06p**	0.05b	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**16p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.3p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**1.4p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**62p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

STATE OF MICHIGAN
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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-SB 15 9''-5'p

Lab ID: 1406234-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	A05b
96-18-4b	1,2,3-Trichloropropaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
591-78-6	2-Hexanoneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1400b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-13-1b	Acrylonitrileb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-43-2b	Benzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-86-1b	Bromobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-97-5b	Bromochloromethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-25-2b	Bromoformb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-83-9b	Bromomethaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-15-0b	Carbon disulfideb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-90-7b	Chlorobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-00-3b	Chloroethaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-66-3b	Chloroformb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-87-3b	Chloromethaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-82-7b	Cyclohexaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	

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Client ID: CHLL-SB 15 9''-5'p

Lab ID: 1406234-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
60-29-7b	Diethyl etherb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-41-4b	Ethylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-72-1b	Hexachloroethaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	140b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-88-4b	Methyl iodideb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-09-2b	Methylene chlorideb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-20-3b	Naphthaleneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-47-6	o-Xyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-42-5b	Styreneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3500b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-88-3b	Tolueneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-01-6	Trichloroethyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-01-4b	Vinyl chlorideb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
Surrogate: Bromofluorobenzene.			*153 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Dibromofluoromethane.			*162 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Toluene-d8.			*144 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	

Lab Work Order # 1406234b

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Client ID: CHLL-SB 15 9''-5'p

Lab ID: 1406234-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	570b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
83-32-9b	Acenaphthene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
208-96-8b	Acenaphthylene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
120-12-7b	Anthracene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthracene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
218-01-9b	Chrysene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
206-44-0b	Fluoranthene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
86-73-7b	Fluorene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	460b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
91-20-3b	Naphthalene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
85-01-8b	Phenanthrene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
129-00-0b	Pyrene	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*55.4 %.*	*32.9-115.*		*07/02/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*69.6 %.*	*31.8-115.*		*07/02/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*66.8 %.*	*38.5-115.*		*07/02/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*74.0 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*60.3 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Lab ID: 1406234-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**87.9p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5700p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**19p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**17p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.4p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**1200p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**5.4p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**230p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**21p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**2.3p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**59p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 15 9''-5' Dup

Lab ID: 1406234-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	A05b
96-18-4b	1,2,3-Trichloropropaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
591-78-6	2-Hexanoneb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-13-1b	Acrylonitrileb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-43-2b	Benzeneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-86-1b	Bromobenzeneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-97-5b	Bromochloromethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-25-2b	Bromoformb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-83-9b	Bromomethaneb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-15-0b	Carbon disulfideb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-90-7b	Chlorobenzeneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-00-3b	Chloroethaneb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-66-3b	Chloroformb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-87-3b	Chloromethaneb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-82-7b	Cyclohexaneb	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	

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Client ID: CHLL-SB 15 9''-5' Dup

Lab ID: 1406234-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
60-29-7b	Diethyl ether	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-20-3b	Diisopropyl Ether	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-41-4b	Ethylbenzene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-72-1b	Hexachloroethane	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-82-8b	Isopropylbenzene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1330-20-7b	m & p - Xylene	NDb	130b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-88-4b	Methyl iodide	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-09-2b	Methylene chloride	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-20-3b	Naphthalene	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
103-65-1b	n-Propylbenzene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-47-6	o-Xylene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
99-87-6	p-Isopropyl toluene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
135-98-8b	sec-Butylbenzene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-42-5b	Styrene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-06-6	tert-Butylbenzene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	3300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
127-18-4b	Tetrachloroethylene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
109-99-9b	Tetrahydrofuran	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-88-3b	Toluene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	330b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-01-6	Trichloroethylene	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-01-4b	Vinyl chloride	NDb	65b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
Surrogate: Bromofluorobenzene.			*145 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Dibromofluoromethane.			*157 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Toluene-d8.			*137 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	

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Client ID: CHLL-SB 15 9''-5' Dup

Lab ID: 1406234-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	570b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthenebb	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthenebb	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
206-44-0b	Fluoranthenebb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	450b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
91-20-3b	Naphthaleneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	230b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*60.3 %.*	*32.9-115.*		*07/02/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*74.2 %.*	*31.8-115.*		*07/02/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*78.4 %.*	*38.5-115.*		*07/02/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*72.4 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*62.2 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Client ID: CHLL-SB 15 9''-5' Dup

Lab ID: 1406234-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**88.1p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6200p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**20p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**18p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.9p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**1400p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**4.4p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**230p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**22p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.4p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**1.4p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**62p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 05 0''-6''p

Lab ID: 1406234-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**85.0p**	0.1b	%b	1b	06/19/14b	B4F1919b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**12000p**	10b	mg/kg dryb	100b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**2.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**110p**	10b	mg/kg dryb	100b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**2.2p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**13p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.7p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**73p**	10b	mg/kg dryb	100b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**25000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**7.0p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**370p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**19p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.2p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**46p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-SB 05 6''-48''p

Lab ID: 1406234-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	600b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	480b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	480b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	480b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthenеb	NDb	480b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	480b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluoranthenеb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	480b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	240b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*68.2 %.*	*32.9-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*65.3 %.*	*31.8-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*76.7 %.*	*38.5-115.*		*07/01/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*76.1 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*64.4 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Client ID: CHLL-SB 05 6''-48''p

Lab ID: 1406234-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**83.2p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**0.9p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**17p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**15p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**7.6p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**960p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**10000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**3.6p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**200p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**19p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**1.7p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**56p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 10 6''-48''p

Lab ID: 1406234-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	550b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	440b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	440b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	440b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthenеb	NDb	440b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	440b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluoranthenеb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	440b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*70.5 %.*	*32.9-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*65.4 %.*	*31.8-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*79.1 %.*	*38.5-115.*		*07/01/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*81.1 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*65.5 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Client ID: CHLL-SB 10 6''-48''p

Lab ID: 1406234-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**90.1p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5400p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**29p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**16p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**7.9p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**1300p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**11000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**3.0p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**210p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**19p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.3p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**1.8p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**59p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 10 48''-96''p

Lab ID: 1406234-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	540b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthenebb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthenebb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluoranthenebb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*71.3 %.*	*32.9-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*68.1 %.*	*31.8-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*80.3 %.*	*38.5-115.*		*07/01/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*77.1 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*65.8 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Client ID: CHLL-SB 10 48''-96''p

Lab ID: 1406234-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**92.5p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**4700p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**32p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**15p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**7.3p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**1700p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**10000p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**3.0p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**200p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**17p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**4.4p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**61p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 10 0''-6''p

Lab ID: 1406234-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**86.4p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**3800p**	10b	mg/kg dryb	100b	07/08/14b	B4F2407b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**0.6p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-39-3b	**Bariump**	**33p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2407b	6020/200.8b	A04b
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-47-3b	**Chromiump**	**7.3p**	2.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-48-4b	**Cobaltp**	**2.7p**	0.5b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-50-8b	**Cop erp**	**57p**	10b	mg/kg dryb	100b	07/08/14b	B4F2407b	6020/200.8b	
7439-89-6	**Ironp**	**7800p**	5.0b	mg/kg dryb	10b	06/27/14b	B4F2407b	6010/200.7b	
7439-92-1b	**Leadp**	**1.9p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-96-5b	**Manganesep**	**120p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**6.0p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-22-4b	**Silverp**	**0.1p**	0.1b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	
7440-66-6	**Zincp**	**13p**	1.0b	mg/kg dryb	10b	07/07/14b	B4F2407b	6020/200.8b	

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Client ID: CHLL-SB 16 0''-6''p

Lab ID: 1406234-09p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**90.2p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**3300p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	Arsenicb	NDb	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**17p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**5.7p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**2.2p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**61p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**5600p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**1.3p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**79p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**5.2p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**0.1p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**11p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 16 6''-6'p

Lab ID: 1406234-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	550b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
83-32-9b	Acenaphthene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
208-96-8b	Acenaphthylene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
120-12-7b	Anthracene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthracene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthene	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
218-01-9b	Chrysene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
206-44-0b	Fluoranthene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
86-73-7b	Fluorene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	440b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
91-20-3b	Naphthalene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
85-01-8b	Phenanthrene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
129-00-0b	Pyrene	NDb	220b	ug/kg dryb	1b	07/02/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*51.2 %.*	*32.9-115.*		*07/02/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*62.9 %.*	*31.8-115.*		*07/02/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*61.9 %.*	*38.5-115.*		*07/02/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*80.4 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*67.0 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Client ID: CHLL-SB 16 6''-6'p

Lab ID: 1406234-10p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**90.7p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6200p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**0.9p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	A12b
7440-39-3b	**Bariump**	**22p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**18p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.9p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**810p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**2.9p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**220p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**23p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.2p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**57p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 16 6'-12'p

Lab ID: 1406234-11p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note 100, Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	540b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	430b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	430b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	430b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	A05b
207-08-9b	Benzo[k]fluoranthenеb	NDb	430b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	430b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	A05b
206-44-0b	Fluoranthenеb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	430b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	A05b
91-20-3b	Naphthaleneb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	07/09/14b	B4G0116	8270b	
Surrogate: 2-Fluorobiphenyl.			*69.1 %.*	*32.9-115.*		*07/09/14.*	B4G0116	*8270.*	
Surrogate: Nitrobenzene-d5.			*64.4 %.*	*31.8-115.*		*07/09/14.*	B4G0116	*8270.*	
Surrogate: p-Terphenyl-d14.			*74.5 %.*	*38.5-115.*		*07/09/14.*	B4G0116	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*80.2 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*70.6 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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P.O. Box 30270O
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TEL: (517) 335-9800O
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Client ID: CHLL-SB 16 6'-12'p

Lab ID: 1406234-11p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**92.0p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**25p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**16p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**7.9p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**1100p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**11000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**8.5p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**210p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**20p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**2.5p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**59p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 09 0-6''p

Lab ID: 1406234-12p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**93.5p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5700p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**0.8p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	A12b
7440-39-3b	**Bariump**	**14p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**16p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.1p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**770p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**3.4p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**210p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0713b	7471/245.5b	
7440-02-0b	**Nickelp**	**20p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.3p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**54p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 09 6''-6'p

Lab ID: 1406234-13p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	560b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	450b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluorantheneb	NDb	450b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	450b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluorantheneb	NDb	450b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	450b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluorantheneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	450b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*70.1 %.*	*32.9-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*64.6 %.*	*31.8-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*75.1 %.*	*38.5-115.*		*07/01/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*79.5 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*68.6 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Client ID: CHLL-SB 09 6''-6'p

Lab ID: 1406234-13p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**89.6p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**110p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**18p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.4p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**890p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**13000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**12p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**230p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.06p**	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**22p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	**Seleniump**	**0.4p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**2.7p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**110p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 09 6'-12'p

Lab ID: 1406234-14p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	570b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluorantheneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluorantheneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluorantheneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*75.3 %.*	*32.9-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*70.2 %.*	*31.8-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*80.1 %.*	*38.5-115.*		*07/01/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*79.2 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*68.5 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Client ID: CHLL-SB 09 6'-12'p

Lab ID: 1406234-14p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**87.9p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6900p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.0p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**20p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**22p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**10p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**1200p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**14000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**5.9p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**260p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**27p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**3.1p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**86p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 11 0-6''p

Lab ID: 1406234-15p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**89.5p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**7400p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.7p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**69p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.7p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	**Cadmiump**	**0.3p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**18p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.0p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**510p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**14000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**87p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**240p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**21p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.0p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**170p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 11 6''-8'p

Lab ID: 1406234-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	A05b
96-18-4b	1,2,3-Trichloropropaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
591-78-6	2-Hexanoneb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1200b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-13-1b	Acrylonitrileb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-43-2b	Benzeneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-86-1b	Bromobenzeneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-97-5b	Bromochloromethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-25-2b	Bromoformb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-83-9b	Bromomethaneb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-15-0b	Carbon disulfideb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-90-7b	Chlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-00-3b	Chloroethaneb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-66-3b	Chloroformb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-87-3b	Chloromethaneb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-82-7b	Cyclohexaneb	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	

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Client ID: CHLL-SB 11 6''-8'p

Lab ID: 1406234-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
60-29-7b	Diethyl ether	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-20-3b	Diisopropyl Ether	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-41-4b	Ethylbenzene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-72-1b	Hexachloroethane	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-82-8b	Isopropylbenzene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1330-20-7b	m & p - Xylene	NDb	120b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-88-4b	Methyl iodide	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-09-2b	Methylene chloride	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-20-3b	Naphthalene	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
103-65-1b	n-Propylbenzene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-47-6	o-Xylene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
99-87-6	p-Isopropyl toluene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
135-98-8b	sec-Butylbenzene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-42-5b	Styrene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-06-6	tert-Butylbenzene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	3000b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
127-18-4b	Tetrachloroethylene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
109-99-9b	Tetrahydrofuran	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-88-3b	Toluene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	300b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-01-6	Trichloroethylene	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-01-4b	Vinyl chloride	NDb	60b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
Surrogate: Bromofluorobenzene.			*146 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Dibromofluoromethane.			*157 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Toluene-d8.			*136 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	

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Client ID: CHLL-SB 11 6''-8'p

Lab ID: 1406234-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	540b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluorantheneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluorantheneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluorantheneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*66.2 %.*	*32.9-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*61.3 %.*	*31.8-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*67.6 %.*	*38.5-115.*		*07/01/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*74.0 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*65.9 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Lansing, MI 48909
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Client ID: CHLL-SB 11 6''-8'p

Lab ID: 1406234-16p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**92.7p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**7300p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/08/14b	B4F2526	6020/200.8b	A03b
7440-38-2b	**Arsenicp**	**1.5p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**26p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**20p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**9.6p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**590p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**13000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**24p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**250p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**24p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.6p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**68p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 11 6''-8' Dup

Lab ID: 1406234-17p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	A05b
96-18-4b	1,2,3-Trichloropropaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
591-78-6	2-Hexanoneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1200b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-13-1b	Acrylonitrileb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-43-2b	Benzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-86-1b	Bromobenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-97-5b	Bromochloromethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-25-2b	Bromoformb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-83-9b	Bromomethaneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-15-0b	Carbon disulfideb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-90-7b	Chlorobenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-00-3b	Chloroethaneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-66-3b	Chloroformb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-87-3b	Chloromethaneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-82-7b	Cyclohexaneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	

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Client ID: CHLL-SB 11 6''-8' Dup

Lab ID: 1406234-17p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
60-29-7b	Diethyl etherb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-41-4b	Ethylbenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-72-1b	Hexachloroethaneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	120b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-88-4b	Methyl iodideb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-09-2b	Methylene chlorideb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-20-3b	Naphthaleneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-47-6	o-Xyleneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-42-5b	Styreneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3100b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-88-3b	Tolueneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	310b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-01-6	Trichloroethyleneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-01-4b	Vinyl chlorideb	NDb	62b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
Surrogate: Bromofluorobenzene.			*170 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Dibromofluoromethane.			*181 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Toluene-d8.			*164 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	

Lab Work Order # 1406234b

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Lab ID: 1406234-17p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	540b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthenebb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthenebb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluoranthenebb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*60.7 %.*	*32.9-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*56.2 %.*	*31.8-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*65.4 %.*	*38.5-115.*		*07/01/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*75.2 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*66.6 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-SB 11 6''-8' Dup

Lab ID: 1406234-17p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**92.5p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6600p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.3p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**22p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.7p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**19p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**9.0p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**1100p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**15p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**230p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**23p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.7p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**61p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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TEL: (517) 335-9800O
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Client ID: CHLL-SB 11 8'-16'p

Lab ID: 1406234-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	A05b
96-18-4b	1,2,3-Trichloropropaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
591-78-6	2-Hexanoneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1400b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
107-13-1b	Acrylonitrileb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
71-43-2b	Benzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-86-1b	Bromobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-97-5b	Bromochloromethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-25-2b	Bromoformb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-83-9b	Bromomethaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-15-0b	Carbon disulfideb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-90-7b	Chlorobenzeneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-00-3b	Chloroethaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-66-3b	Chloroformb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-87-3b	Chloromethaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-82-7b	Cyclohexaneb	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	

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Client ID: CHLL-SB 11 8'-16'p

Lab ID: 1406234-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
60-29-7b	Diethyl ether	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-20-3b	Diisopropyl Ether	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-41-4b	Ethylbenzene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
67-72-1b	Hexachloroethane	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-82-8b	Isopropylbenzene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1330-20-7b	m & p - Xylene	NDb	140b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
74-88-4b	Methyl iodide	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-09-2b	Methylene chloride	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
91-20-3b	Naphthalene	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
103-65-1b	n-Propylbenzene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
95-47-6	o-Xylene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
99-87-6	p-Isopropyl toluene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
135-98-8b	sec-Butylbenzene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
100-42-5b	Styrene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
98-06-6	tert-Butylbenzene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	3500b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
127-18-4b	Tetrachloroethylene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
109-99-9b	Tetrahydrofuran	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
108-88-3b	Toluene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	350b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
79-01-6	Trichloroethylene	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
75-01-4b	Vinyl chloride	NDb	70b	ug/kg dryb	50b	06/23/14b	B4F2303b	8260b	
Surrogate: Bromofluorobenzene.			*160 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Dibromofluoromethane.			*167 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	
Surrogate: Toluene-d8.			*148 %.*	*50-150.*		*06/23/14.*	B4F2303b	*8260.*	

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Client ID: CHLL-SB 11 8'-16'p

Lab ID: 1406234-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	580b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluorantheneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluorantheneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluorantheneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	460b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	230b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl.			*66.8 %.*	*32.9-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: Nitrobenzene-d5.			*61.2 %.*	*31.8-115.*		*07/01/14.*	B4F2513b	*8270.*	
Surrogate: p-Terphenyl-d14.			*70.5 %.*	*38.5-115.*		*07/01/14.*	B4F2513b	*8270.*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	120b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl.			*74.9 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	
Surrogate: Tetrachloro-m-xylene.			*64.0 %.*	*30-150.*		*07/16/14.*	B4G0814b	*8081/8082.*	

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Client ID: CHLL-SB 11 8'-16'p

Lab ID: 1406234-18p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**86.6p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6100p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.0p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**23p**	1.0b	mg/kg dryb	10b	07/09/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**18p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.9p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**780p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**2.7p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**230p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**23p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.2p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**58p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-SB 08 0-6''p

Lab ID: 1406234-19p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**87.9p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6300p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.0p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**35p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**9.0p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**4.5p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**36p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**2.3p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**190p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**9.7p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**22p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-SB 08 0-6'' Dup

Lab ID: 1406234-20p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**89.9p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5600p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**0.9p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**23p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**12p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**6.3p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**480p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**11000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**2.5p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**210p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**15p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.0p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**40p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406234	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: kerenena@michigan.gov		Contract Firm: WESTON SOLUTIONS
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: JEFF BINKLEY
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-SB 15 3-9"	6/15/14	1435		
2	02	CHLL-SB 15 ~~9-60"~~ 9"-5'	6/15/14	1440		
3	03	CHLL-SB 15 ~~9-60" DUP~~ 9"-5' DUP	6/15/14	1440		
4	04	CHLL-SB 05-0"-6"	6/16/14	0805		metals only
5	05	CHLL-SB 05-6"-48"	6/16/14	0810		
6	06	CHLL-SB 10-6"-48"		0905		
7	07	CHLL-SB 10-48"-96"		0905		
8	08	CHLL-SB 10-0"-6"		0900		metals only
9	09	CHLL-SB 16-0-6"	6/16/14	0920		metals only
10	10	CHLL-SB 16-6"-6'	6/16/14	0930		

ORGANIC CHEMISTRY

VOA - Volatile Organic Addic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMemo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

Relinquished by	Received By	Date / Time
Print Name & Org.: Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 9:46
Signature:		
Print Name & Org.:		
Signature:		
Print Name & Org.:		
Signature:		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406234	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: kerkhenra@michigan.gov		Contract Firm: WESTON SOLUTIONS
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: JEFF BINKLEY
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	11	CHLL-SB 16 - 6'-12'	6/16/14	0935		
2	12	CHLL-SB 09 - 0-6"	6/16/14	1040		
3	13	CHLL-SB 09 - 6"-6'	6/16/14	1045		
4	14	CHLL-SB 09 - 6'-12'		1045		
5	15	CHLL-SB 11 - 0-6"		1140		
6	16	CHLL-SB 11 - 6"-8'		1145		
7	17	CHLL-SB 11 - 6"-8' DUP		1145		
8	18	CHLL-SB 11 - 8'-16'		1150		
9	19	CHLL-SB 08 - 0-6"		1315		
10	20	CHLL-SB 08 - 0-6" DUP		1315		

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/FMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

OpMetro2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 8 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 0946
Signature:	[signature]	[signature]	
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909O
TEL: (517) 335-9800O
FAX: (517) 335-9600O

25 July 2014O

Work Order: 1406235O

Price: $4,383.00O

Jeff PincumbeO
MDEQ-RRD-LANSINGO
525 W. Allegan StreetO
Lansing, MI 48909O

RE: ABANDONED MINING WASTE-TORCH LAKE PCBO

I certify that the analyses performed by the MDEQ Environmental Laboratory were conducted by methods O approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.O

Sincerely, O

George KrisztianO
Laboratory DirectorO

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

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MDEQ-RRD-LANSINGb
525 W. Allegan Streetb
Lansing MI, 48909b

Project:bABANDONED MINING WASTE-TORCH LAKE PCBb
Site Code:b31000098b
Project Manager:bJeff Pincumbeb

Reported:p
07/25/2014b

Analytical Report for Samplesp

Sample IDp	Laboratory IDp	Matrixp	Date Sampledp	Date Receivedp	Qualifierp
CHLL-SB 08 6"-8'b	1406235-01b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 08 8'-15b	1406235-02b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 12 0-6"b	1406235-03b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 12 6"-12'b	1406235-04b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 12 12'-24'b	1406235-05b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 07 0-6"b	1406235-06	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 07 6"-12'b	1406235-07b	Soil/Sedimentb	06/16/2014b	06/18/2014b	
CHLL-SB 07 12'-23'b	1406235-08b	Soil/Sedimentb	06/16/2014b	06/18/2014b	

Notes and Definitions p

Y20b	Reporting Limits (RL) raised due to matrix.b
X3b	Spike recovery is not applicable due to large target analyte concentration in the source sample.b
Xb	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200 ºC. 2-Methylnaphthalene & naphthalene b have boiling points above 200 ºC and are better suited to analysis by methods 8270 & 625 as semivolatile organics.b
A11b	Result is estimated due to high initial verification standard criteria failure.b
A09b	Result is estimated due to high recovery of batch quality control.b
A07b	Result(s) and reporting limit(s) are estimated due to poor precision. b
A06	Result is estimated due to high continuing calibration standard criteria failure. b
A05b	Result and reporting limit are estimated due to low continuing calibration standard criteria failure. b
A04b	Result is estimated due to high matrix spike recovery. b
NDb	Indicates compound analyzed for but not detected b
RLb	Reporting Limit b
NAb	Not Applicable b
dry	Sample results reported on a dry weight basis b

STATE OF MICHIGAN
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-SB 08 6''-8'p

Lab ID: 1406235-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
591-78-6	2-Hexanoneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1200b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-13-1b	Acrylonitrileb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-43-2b	Benzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-86-1b	Bromobenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-97-5b	Bromochloromethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-25-2b	Bromoformb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-83-9b	Bromomethaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-15-0b	Carbon disulfideb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-90-7b	Chlorobenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-00-3b	Chloroethaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-66-3b	Chloroformb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-87-3b	Chloromethaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-82-7b	Cyclohexaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	

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Client ID: CHLL-SB 08 6''-8'p

Lab ID: 1406235-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
60-29-7b	Diethyl etherb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-41-4b	Ethylbenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-72-1b	Hexachloroethaneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	120b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-88-4b	Methyl iodideb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-09-2b	Methylene chlorideb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-20-3b	Naphthaleneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-47-6	o-Xyleneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-42-5b	Styreneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3000b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-88-3b	Tolueneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-01-6	Trichloroethyleneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-01-4b	Vinyl chlorideb	NDb	60b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
Surrogate: Bromofluorobenzene-			*158 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Dibromofluoromethane-			*166 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Toluene-d8-			*154 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	

Lab Work Order # 1406235b

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Client ID: CHLL-SB 08 6''-8'p

Lab ID: 1406235-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	540b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthenebb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthenebb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluoranthenebb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl-			*65.5 %-*	*32.9-115-*		*07/01/14-*	B4F2513b	*8270-*	
Surrogate: Nitrobenzene-d5-			*60.8 %-*	*31.8-115-*		*07/01/14-*	B4F2513b	*8270-*	
Surrogate: p-Terphenyl-d14-			*69.5 %-*	*38.5-115-*		*07/01/14-*	B4F2513b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*79.5 %-*	*30-150-*		*07/16/14-*	B4G0814b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*70.4 %-*	*30-150-*		*07/16/14-*	B4G0814b	*8081/8082-*	

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Client ID: CHLL-SB 08 6''-8'p

Lab ID: 1406235-01p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**92.6p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5800p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.3p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**31p**	1.0b	mg/kg dryb	10b	07/09/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**19p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**8.5p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**710p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**11p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**220p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**20p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.9p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**62p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 08 8'-15p

Lab ID: 1406235-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
591-78-6	2-Hexanoneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1200b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-13-1b	Acrylonitrileb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-43-2b	Benzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-86-1b	Bromobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-97-5b	Bromochloromethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-25-2b	Bromoformb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-83-9b	Bromomethaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-15-0b	Carbon disulfideb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-90-7b	Chlorobenzeneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-00-3b	Chloroethaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-66-3b	Chloroformb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-87-3b	Chloromethaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-82-7b	Cyclohexaneb	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	

STATE OF MICHIGAN
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-SB 08 8'-15p

Lab ID: 1406235-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
60-29-7b	Diethyl ether	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-20-3b	Diisopropyl Ether	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-41-4b	Ethylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-72-1b	Hexachloroethane	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-82-8b	Isopropylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1330-20-7b	m & p - Xylene	NDb	120b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-88-4b	Methyl iodide	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-09-2b	Methylene chloride	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-20-3b	Naphthalene	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
103-65-1b	n-Propylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-47-6	o-Xylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
99-87-6	p-Isopropyl toluene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
135-98-8b	sec-Butylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-42-5b	Styrene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-06-6	tert-Butylbenzene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	3100b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
127-18-4b	Tetrachloroethylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
109-99-9b	Tetrahydrofuran	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-88-3b	Toluene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	310b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-01-6	Trichloroethylene	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-01-4b	Vinyl chloride	NDb	61b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
Surrogate: Bromofluorobenzene-			*161 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Dibromofluoromethane-			*170 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Toluene-d8-			*154 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	

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Client ID: CHLL-SB 08 8'-15p

Lab ID: 1406235-02p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**91.7p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	

Lab Work Order # 1406235b

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Client ID: CHLL-SB 12 0-6''p

Lab ID: 1406235-03p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**92.4p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**7500p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.2p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**23p**	1.0b	mg/kg dryb	10b	07/09/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**20p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**10p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**870p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**12000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**13p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**250p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**27p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**2.4p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**67p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 12 6''-12'p

Lab ID: 1406235-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
591-78-6	2-Hexanoneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1200b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-13-1b	Acrylonitrileb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-43-2b	Benzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-86-1b	Bromobenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-97-5b	Bromochloromethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-25-2b	Bromoformb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-83-9b	Bromomethaneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-15-0b	Carbon disulfideb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-90-7b	Chlorobenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-00-3b	Chloroethaneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-66-3b	Chloroformb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-87-3b	Chloromethaneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-82-7b	Cyclohexaneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	

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Client ID: CHLL-SB 12 6''-12'p

Lab ID: 1406235-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
60-29-7b	Diethyl etherb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-41-4b	Ethylbenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-72-1b	Hexachloroethaneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	120b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-88-4b	Methyl iodideb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-09-2b	Methylene chlorideb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-20-3b	Naphthaleneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-47-6	o-Xyleneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-42-5b	Styreneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	2900b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-88-3b	Tolueneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	290b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-01-6	Trichloroethyleneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-01-4b	Vinyl chlorideb	NDb	58b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
Surrogate: Bromofluorobenzene-			*152 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Dibromofluoromethane-			*163 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Toluene-d8-			*145 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	

Lab Work Order # 1406235b

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-SB 12 6''-12'p

Lab ID: 1406235-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthaleneb	NDb	540b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
83-32-9b	Acenaphtheneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
208-96-8b	Acenaphthyleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
120-12-7b	Anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
56-55-3b	Benz[a]anthraceneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
50-32-8b	Benzo[a]pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
205-99-2b	Benzo[b]fluoranthenеb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
191-24-2b	Benzo[g,h,i]peryleneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
207-08-9b	Benzo[k]fluoranthenеb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
218-01-9b	Chryseneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
53-70-3b	Dibenz[a,h]anthraceneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
206-44-0b	Fluoranthenеb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
86-73-7b	Fluoreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyreneb	NDb	430b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	A05b
91-20-3b	Naphthaleneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
85-01-8b	Phenanthreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
129-00-0b	Pyreneb	NDb	220b	ug/kg dryb	1b	07/01/14b	B4F2513b	8270b	
Surrogate: 2-Fluorobiphenyl-			*66.5 %-*	*32.9-115-*		*07/01/14-*	B4F2513b	*8270-*	
Surrogate: Nitrobenzene-d5-			*62.2 %-*	*31.8-115-*		*07/01/14-*	B4F2513b	*8270-*	
Surrogate: p-Terphenyl-d14-			*71.3 %-*	*38.5-115-*		*07/01/14-*	B4F2513b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*73.9 %-*	*30-150-*		*07/16/14-*	B4G0814b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*68.0 %-*	*30-150-*		*07/16/14-*	B4G0814b	*8081/8082-*	

Lab Work Order # 1406235b

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Client ID: CHLL-SB 12 6''-12'p

Lab ID: 1406235-04p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**93.0p**	0.1b	%b	1b	06/19/14b	B4F1920b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**8000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.5p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**25p**	1.0b	mg/kg dryb	10b	07/09/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.9p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**22p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**10p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**570p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**14000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**7.5p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**250p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.05b	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**28p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.5p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**57p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 12 12'-24'p

Lab ID: 1406235-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
591-78-6	2-Hexanoneb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-13-1b	Acrylonitrileb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-43-2b	Benzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-86-1b	Bromobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-97-5b	Bromochloromethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-25-2b	Bromoformb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-83-9b	Bromomethaneb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-15-0b	Carbon disulfideb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-90-7b	Chlorobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-00-3b	Chloroethaneb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-66-3b	Chloroformb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-87-3b	Chloromethaneb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-82-7b	Cyclohexaneb	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	

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Client ID: CHLL-SB 12 12'-24'p

Lab ID: 1406235-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
60-29-7b	Diethyl ether	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-20-3b	Diisopropyl Ether	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-41-4b	Ethylbenzene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-72-1b	Hexachloroethane	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-82-8b	Isopropylbenzene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1330-20-7b	m & p - Xylene	NDb	130b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-88-4b	Methyl iodide	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-09-2b	Methylene chloride	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-20-3b	Naphthalene	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
103-65-1b	n-Propylbenzene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-47-6	o-Xylene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
99-87-6	p-Isopropyl toluene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
135-98-8b	sec-Butylbenzene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-42-5b	Styrene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-06-6	tert-Butylbenzene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	3400b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
127-18-4b	Tetrachloroethylene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
109-99-9b	Tetrahydrofuran	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-88-3b	Toluene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	340b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-01-6	Trichloroethylene	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-01-4b	Vinyl chloride	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
Surrogate: Bromofluorobenzene-			*147 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Dibromofluoromethane-			*158 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Toluene-d8-			*141 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	

Lab Work Order # 1406235b

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Client ID: CHLL-SB 12 12'-24'p

Lab ID: 1406235-05p

CAS #b	Analyte	Resultb	RLb	Unitsb	Dilution	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	570b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
83-32-9b	Acenaphthene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
208-96-8b	Acenaphthylene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
120-12-7b	Anthracene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
56-55-3b	Benz[a]anthracene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
218-01-9b	Chrysene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
206-44-0b	Fluoranthene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
86-73-7b	Fluorene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
91-20-3b	Naphthalene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
85-01-8b	Phenanthrene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
129-00-0b	Pyrene	NDb	230b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
Surrogate: 2-Fluorobiphenyl-			*62.5 %-*	*32.9-115-*		*06/27/14-*	B4F2524b	*8270-*	
Surrogate: Nitrobenzene-d5-			*75.5 %-*	*31.8-115-*		*06/27/14-*	B4F2524b	*8270-*	
Surrogate: p-Terphenyl-d14-			*68.6 %-*	*38.5-115-*		*06/27/14-*	B4F2524b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11104-28-2b	Aroclor 1221b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11141-16-5b	Aroclor 1232b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
53469-21-9b	Aroclor 1242b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
12672-29-6	Aroclor 1248b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11097-69-1b	Aroclor 1254b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11096-82-5b	Aroclor 1260b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
37324-23-5b	Aroclor 1262b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
11100-14-4b	Aroclor 1268b	NDb	110b	ug/kg dryb	1b	07/16/14b	B4G0814b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*76.1 %-*	*30-150-*		*07/16/14-*	B4G0814b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*67.7 %-*	*30-150-*		*07/16/14-*	B4G0814b	*8081/8082-*	

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ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
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Client ID: CHLL-SB 12 12'-24'p

Lab ID: 1406235-05p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**88.1p**	0.1b	%b	1b	06/20/14b	B4F2008b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**8400p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.1p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**16p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**24p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**11p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**750p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**14000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**2.0p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**270p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	**Mercuryp**	**0.2p**	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**32p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**2.8p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**58p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 07 0-6''p

Lab ID: 1406235-06p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**89.0p**	0.1b	%b	1b	06/20/14b	B4F2008b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**5600p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.0p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**27p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.4p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**8.0p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**2.9p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**18p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**8900p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**2.5p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**220p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**6.2p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	Silverb	NDb	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**15p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 07 6''-12'p

Lab ID: 1406235-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
591-78-6	2-Hexanoneb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1600b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-13-1b	Acrylonitrileb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-43-2b	Benzeneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-86-1b	Bromobenzeneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-97-5b	Bromochloromethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-25-2b	Bromoformb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-83-9b	Bromomethaneb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-15-0b	Carbon disulfideb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-90-7b	Chlorobenzeneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-00-3b	Chloroethaneb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-66-3b	Chloroformb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-87-3b	Chloromethaneb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-82-7b	Cyclohexaneb	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	

Lab Work Order # 1406235b

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TEL: (517) 335-9800O
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Client ID: CHLL-SB 07 6''-12'p

Lab ID: 1406235-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethane	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-71-8b	Dichlorodifluoromethane	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
60-29-7b	Diethyl ether	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-20-3b	Diisopropyl Ether	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-41-4b	Ethylbenzene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
637-92-3b	Ethyltertiarybutylether	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-72-1b	Hexachloroethane	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-82-8b	Isopropylbenzene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1330-20-7b	m & p - Xylene	NDb	160b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-88-4b	Methyl iodide	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-09-2b	Methylene chloride	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1634-04-4b	Methyltertiarybutylether	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-20-3b	Naphthalene	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
104-51-8b	n-Butylbenzene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
103-65-1b	n-Propylbenzene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-47-6	o-Xylene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
99-87-6	p-Isopropyl toluene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
135-98-8b	sec-Butylbenzene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-42-5b	Styrene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-06-6	tert-Butylbenzene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-65-0b	tertiary Butyl Alcohol	NDb	3900b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
994-05-8b	tertiaryAmylmethylether	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
127-18-4b	Tetrachloroethylene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
109-99-9b	Tetrahydrofuran	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-88-3b	Toluene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-60-5b	trans-1,2-Dichloroethylene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-02-6	trans-1,3-Dichloropropylene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-57-6	trans-1,4-Dichloro-2-butene	NDb	390b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-01-6	Trichloroethylene	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-69-4b	Trichlorofluoromethane	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-01-4b	Vinyl chloride	NDb	78b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
Surrogate: Bromofluorobenzene-			*169 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Dibromofluoromethane-			*170 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Toluene-d8-			*153 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	

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ENVIRONMENTAL LABORATORYC

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Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-SB 07 6''-12'p

Lab ID: 1406235-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	620b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
83-32-9b	Acenaphthene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
208-96-8b	Acenaphthylene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
120-12-7b	Anthracene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
56-55-3b	Benz[a]anthracene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	500b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	500b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	500b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	500b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
218-01-9b	Chrysene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	500b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
206-44-0b	Fluoranthene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
86-73-7b	Fluorene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	500b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
91-20-3b	Naphthalene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
85-01-8b	Phenanthrene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
129-00-0b	Pyrene	NDb	250b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
Surrogate: 2-Fluorobiphenyl-			*62.5 %-*	*32.9-115-*		*06/27/14-*	B4F2524b	*8270-*	
Surrogate: Nitrobenzene-d5-			*77.0 %-*	*31.8-115-*		*06/27/14-*	B4F2524b	*8270-*	
Surrogate: p-Terphenyl-d14-			*78.0 %-*	*38.5-115-*		*06/27/14-*	B4F2524b	*8270-*	
Organics-PCBs as Aroclorsp									**See note Y20p**
12674-11-2b	Aroclor 1016	NDb	250b	ug/kg dryb	1b	07/23/14b	B4G1424b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	250b	ug/kg dryb	1b	07/23/14b	B4G1424b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	250b	ug/kg dryb	1b	07/23/14b	B4G1424b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	250b	ug/kg dryb	1b	07/23/14b	B4G1424b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	250b	ug/kg dryb	1b	07/23/14b	B4G1424b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	250b	ug/kg dryb	1b	07/23/14b	B4G1424b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	250b	ug/kg dryb	1b	07/23/14b	B4G1424b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	250b	ug/kg dryb	1b	07/23/14b	B4G1424b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	250b	ug/kg dryb	1b	07/23/14b	B4G1424b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*84.3 %-*	*30-150-*		*07/23/14-*	B4G1424b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*70.8 %-*	*30-150-*		*07/23/14-*	B4G1424b	*8081/8082-*	

STATE OF MICHIGAN
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
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Client ID: CHLL-SB 07 6''-12'p

Lab ID: 1406235-07p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**80.4p**	0.1b	%b	1b	06/20/14b	B4F2008b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.12b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**11000p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**1.2p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**14p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**29p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**13p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**700p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**15000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**2.0p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**320p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**39p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.2p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**58p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

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Client ID: CHLL-SB 07 12'-23'p

Lab ID: 1406235-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
630-20-6	1,1,1,2-Tetrachloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-55-6	1,1,1-Trichloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-34-5b	1,1,2,2-Tetrachloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-00-5b	1,1,2-Trichloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-34-3b	1,1-Dichloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-35-4b	1,1-Dichloroethyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
87-61-6	1,2,3-Trichlorobenzeneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-18-4b	1,2,3-Trichloropropaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
526-73-8b	1,2,3-Trimethylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
120-82-1b	1,2,4-Trichlorobenzeneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-63-6	1,2,4-Trimethylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
96-12-8b	1,2-Dibromo-3-chloropropaneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-93-4b	1,2-Dibromoethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-50-1b	1,2-Dichlorobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-06-2b	1,2-Dichloroethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-87-5b	1,2-Dichloropropaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-67-8b	1,3,5-Trimethylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
541-73-1b	1,3-Dichlorobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
106-46-7b	1,4-Dichlorobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
78-93-3b	2-Butanone (MEK)b	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
591-78-6	2-Hexanoneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-57-6	2-Methylnaphthaleneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
67-64-1b	2-Propanone (acetone)b	NDb	1300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-10-1b	4-Methyl-2-pentanone (MIBK)b	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
107-13-1b	Acrylonitrileb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
71-43-2b	Benzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-86-1b	Bromobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-97-5b	Bromochloromethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-27-4b	Bromodichloromethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-25-2b	Bromoformb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-83-9b	Bromomethaneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-15-0b	Carbon disulfideb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
56-23-5b	Carbon tetrachlorideb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-90-7b	Chlorobenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-00-3b	Chloroethaneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-66-3b	Chloroformb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-87-3b	Chloromethaneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-59-2b	cis-1,2-Dichloroethyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-01-5b	cis-1,3-Dichloropropyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-82-7b	Cyclohexaneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
124-48-1b	Dibromochloromethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	

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Client ID: CHLL-SB 07 12'-23'p

Lab ID: 1406235-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Organics-Volatilesp									
74-95-3b	Dibromomethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-71-8b	Dichlorodifluoromethaneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
60-29-7b	Diethyl etherb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-20-3b	Diisopropyl Etherb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-41-4b	Ethylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
637-92-3b	Ethyltertiarybutyletherb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
67-72-1b	Hexachloroethaneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-82-8b	Isopropylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1330-20-7b	m & p - Xyleneb	NDb	130b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
74-88-4b	Methyl iodideb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-09-2b	Methylene chlorideb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
1634-04-4b	Methyltertiarybutyletherb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
91-20-3b	Naphthaleneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	Xb
104-51-8b	n-Butylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
103-65-1b	n-Propylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
95-47-6	o-Xyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
99-87-6	p-Isopropyl tolueneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
135-98-8b	sec-Butylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
100-42-5b	Styreneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
98-06-6	tert-Butylbenzeneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-65-0b	tertiary Butyl Alcoholb	NDb	3300b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
994-05-8b	tertiaryAmylmethyletherb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
127-18-4b	Tetrachloroethyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
109-99-9b	Tetrahydrofuranb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
108-88-3b	Tolueneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
156-60-5b	trans-1,2-Dichloroethyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
10061-02-6	trans-1,3-Dichloropropyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
110-57-6	trans-1,4-Dichloro-2-buteneb	NDb	330b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
79-01-6	Trichloroethyleneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-69-4b	Trichlorofluoromethaneb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
75-01-4b	Vinyl chlorideb	NDb	67b	ug/kg dryb	50b	06/22/14b	B4F2201b	8260b	
Surrogate: Bromofluorobenzene-			*147 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Dibromofluoromethane-			*155 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	
Surrogate: Toluene-d8-			*144 %-*	*50-150-*		*06/22/14-*	B4F2201b	*8260-*	

Lab Work Order # 1406235b

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Client ID: CHLL-SB 07 12'-23'p

Lab ID: 1406235-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzedb Dateb	QC Batchb	Methodb	Qualifierb
Organics-Semivolatilesp									**See note Y20p**
91-57-6	2-Methylnaphthalene	NDb	560b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
83-32-9b	Acenaphthene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
208-96-8b	Acenaphthylene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
120-12-7b	Anthracene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
56-55-3b	Benz[a]anthracene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
50-32-8b	Benzo[a]pyrene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
205-99-2b	Benzo[b]fluoranthene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
191-24-2b	Benzo[g,h,i]perylene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
207-08-9b	Benzo[k]fluoranthene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
218-01-9b	Chrysene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
53-70-3b	Dibenz[a,h]anthracene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
206-44-0b	Fluoranthene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
86-73-7b	Fluorene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
193-39-5b	Indeno(1,2,3-c,d)pyrene	NDb	450b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
91-20-3b	Naphthalene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
85-01-8b	Phenanthrene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
129-00-0b	Pyrene	NDb	220b	ug/kg dryb	1b	06/27/14b	B4F2524b	8270b	
Surrogate: 2-Fluorobiphenyl-			*55.0 %-*	*32.9-115-*		*06/27/14-*	B4F2524b	*8270-*	
Surrogate: Nitrobenzene-d5-			*66.6 %-*	*31.8-115-*		*06/27/14-*	B4F2524b	*8270-*	
Surrogate: p-Terphenyl-d14-			*70.0 %-*	*38.5-115-*		*06/27/14-*	B4F2524b	*8270-*	
Organics-PCBs as Aroclorsp									
12674-11-2b	Aroclor 1016	NDb	110b	ug/kg dryb	1b	07/24/14b	B4G1424b	8081/8082b	
11104-28-2b	Aroclor 1221	NDb	110b	ug/kg dryb	1b	07/24/14b	B4G1424b	8081/8082b	
11141-16-5b	Aroclor 1232	NDb	110b	ug/kg dryb	1b	07/24/14b	B4G1424b	8081/8082b	
53469-21-9b	Aroclor 1242	NDb	110b	ug/kg dryb	1b	07/24/14b	B4G1424b	8081/8082b	
12672-29-6	Aroclor 1248	NDb	110b	ug/kg dryb	1b	07/24/14b	B4G1424b	8081/8082b	
11097-69-1b	Aroclor 1254	NDb	110b	ug/kg dryb	1b	07/24/14b	B4G1424b	8081/8082b	
11096-82-5b	Aroclor 1260	NDb	110b	ug/kg dryb	1b	07/24/14b	B4G1424b	8081/8082b	
37324-23-5b	Aroclor 1262	NDb	110b	ug/kg dryb	1b	07/24/14b	B4G1424b	8081/8082b	
11100-14-4b	Aroclor 1268	NDb	110b	ug/kg dryb	1b	07/24/14b	B4G1424b	8081/8082b	
Surrogate: Decachlorobiphenyl-			*74.0 %-*	*30-150-*		*07/24/14-*	B4G1424b	*8081/8082-*	
Surrogate: Tetrachloro-m-xylene-			*67.6 %-*	*30-150-*		*07/24/14-*	B4G1424b	*8081/8082-*	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITYC
ENVIRONMENTAL LABORATORYC

P.O. Box 30270O
Lansing, MI 48909
TEL: (517) 335-9800O
FAX: (517) 335-9600O

Client ID: CHLL-SB 07 12'-23'p

Lab ID: 1406235-08p

CAS #b	Analyteb	Resultb	RLb	Unitsb	Dilutionb	Analyzed b Dateb	QC Batchb	Methodb	Qualifier b
Inorganics-General Chemistryp									
TSb	**% Total Solidsp**	**89.8p**	0.1b	%b	1b	06/20/14b	B4F2008b	2540 Bb	
57-12-5b	Total Cyanideb	NDb	0.11b	mg/kg dryb	1b	06/26/14b	B4F2318b	ASTM D 7511-09b	
Inorganics-Metalsp									
7429-90-5b	**Aluminiump**	**6400p**	100b	mg/kg dryb	1000b	07/08/14b	B4F2408b	6020/200.8b	
7440-36-0b	Antimonyb	NDb	0.3b	mg/kg dryb	10b	07/09/14b	B4F2527b	6020/200.8b	
7440-38-2b	**Arsenicp**	**3.2p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-39-3b	**Bariump**	**16p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-41-7b	**Berylliump**	**0.8p**	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-43-9b	Cadmiumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-47-3b	**Chromiump**	**21p**	2.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-48-4b	**Cobaltp**	**9.3p**	0.5b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-50-8b	**Cop erp**	**890p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-89-6	**Ironp**	**13000p**	5.0b	mg/kg dryb	10b	07/02/14b	B4F2408b	6010/200.7b	
7439-92-1b	**Leadp**	**2.2p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7439-96-5b	**Manganesep**	**230p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	A04b
7439-97-6	Mercuryb	NDb	0.06	mg/kg dryb	1b	07/09/14b	B4G0714b	7471/245.5b	
7440-02-0b	**Nickelp**	**25p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7782-49-2b	Seleniumb	NDb	0.2b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-22-4b	**Silverp**	**1.6p**	0.1b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	
7440-66-6	**Zincp**	**57p**	1.0b	mg/kg dryb	10b	07/08/14b	B4F2408b	6020/200.8b	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Page_____ of _____

ENVIRONMENTAL LABORATORY - ANALYSIS REQUEST SHEET

Lab Work Order Number	Project Name	Matrix
1406235	Abandoned Mining Waste- Torch Lake PCB	SOIL/SEDIMENT

Site Code/Project Number: 31000098	AY: 14	CC Email 1 to send additional reports to: shireyb	Project TAT Days:	Sample Collector: Jeff Pincumbe
Dept-Division-District: RRD-PSS-GSU	Index: 44031	CC Email 2 to send additional reports to: j.binkley@westonsolutions.com	Project Due Date:	Sample Collector Phone: 517-335-6418
State Project Manager: Jeff Pincumbe	PCA: 30740	CC Email 3 to send additional reports to: Kerkenna@michigan.gov		Contract Firm: WESTON SOLUTIONS
State Project Manager Email: pincumbej	Project: 456990	Overflow Lab Choice 1:	Accept Analysis hold time codes: Yes/No: NO	Contract Firm Primary Contact: JEFF BINKLEY
State Project Manager Phone: 517-335-6418	Phase: 0	Overflow Lab Choice 2:		Primary Contact Phone: 906-523-5457

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Container Count	Comments
1	01	CHLL-SB 08 - 6"-8'	6/16/14	1320		
* 2	02	CHLL-SB ~~08 - 8'-15'~~ ~~OK~~ 08 8'-15'	6/16/14	~~1325~~ ~~OK~~		NOT SAMPLED FOR METALS / VOCS ONLY
3	03	CHLL-SB 12 - 0-6"	6/16/14	1430		
4	04	CHLL-SB 12 - 6"-12'	6/16/14	1435		
5	05	CHLL-SB 12 - 12'-24'	6/16/14	1440		
6	06	CHLL-SB 07 - 0-6"	6/16/14	1520		
7	07	CHLL-SB 07 - 6"-12'	6/16/14	1525		
8	08	CHLL-SB 07 - 12'-23'	6/16/14	1530		
9	~~09~~	CHLL-SB				
10		CHLL-SB				

ORGANIC CHEMISTRY

VOA - Volatile Organic Acidic

Volatiles - Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10
Chlorinated only	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10

OS - Pesticides, PCBs

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10

BNA - Base Neutral Acids

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

Organic Specialty Requests

Library search - Volatiles	1 2 3 4 5 6 7 8 9 10
Library Search - SemiVols	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10

METALS CHEMISTRY PACKAGES

Dol/Semo2 - Total (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mo,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10
Mkl Igan10 - Total (As,Sa,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10

* #2
SB-08 8'-15'
VOC's only

MS - TOTAL METALS

Silver - Ag	1 2 3 4 5 6 7 8 9 10
Aluminum - Al	1 2 3 4 5 6 7 8 9 10
Arsenic - As	1 2 3 4 5 6 7 8 9 10
Barium - Ba	1 2 3 4 5 6 7 8 9 10
Beryllium - Be	1 2 3 4 5 6 7 8 9 10
Cadmium - Cd	1 2 3 4 5 6 7 8 9 10
Cobalt - Co	1 2 3 4 5 6 7 8 9 10
Chromium - Cr	1 2 3 4 5 6 7 8 9 10
Copper - Cu	1 2 3 4 5 6 7 8 9 10
Iron - Fe	1 2 3 4 5 6 7 8 9 10
Mercury - Hg	1 2 3 4 5 6 7 8 9 10
Lithium - Li	1 2 3 4 5 6 7 8 9 10
Manganese - Mn	1 2 3 4 5 6 7 8 9 10
Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10
Nickel - Ni	1 2 3 4 5 6 7 8 9 10
Lead - Pb	1 2 3 4 5 6 7 8 9 10
Antimony - Sb	1 2 3 4 5 6 7 8 9 10
Selenium - Se	1 2 3 4 5 6 7 8 9 10
Strontium - Sr	1 2 3 4 5 6 7 8 9 10
Titanium - Ti	1 2 3 4 5 6 7 8 9 10
Thallium - Tl	1 2 3 4 5 6 7 6 9 10
Vanadium - V	1 2 3 4 5 6 7 8 9 10
Zinc - Zn	1 2 3 4 5 6 7 8 9 10
Calcium - Ca	1 2 3 4 5 6 7 8 9 10
Potassium - K	1 2 3 4 5 6 7 8 9 10
Magnesium - Mg	1 2 3 4 5 6 7 8 9 10
Sodium - Na	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS - General Chemistry

Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10

Chain of Custody

	Relinquished by	Received By	Date / Time
Print Name & Org.	Jeff Pincumbe - MDEQ	Melissa Smith	6/18/14 0947
Signature:			
Print Name & Org.			
Signature:			
Print Name & Org.			
Signature:			

NEW Copy of MDEQLab Analysis Request Sheet.xlsx