

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-91593-1

Client Project/Site: GE Tonawanda

For:

Clean Harbors Environmental Services Inc

42 Longwater Drive

Norwell, Massachusetts 02061

Attn: Chris Nelson



Authorized for release by:

11/25/2015 12:51:21 PM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Job ID: 480-91593-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-91593-1

Comments

No additional comments.

Receipt

The samples were received on 11/23/2015 9:24 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.1° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID 4166 SIDE

Lab Sample ID: 480-91593-1

No Detections.

Client Sample ID: ID 4166 BOTTOM

Lab Sample ID: 480-91593-2

No Detections.

Client Sample ID: ID CH1018 FRONT TANK BOTTOM

Lab Sample ID: 480-91593-3

No Detections.

Client Sample ID: ID CH1018 FRONT TANK TOP

Lab Sample ID: 480-91593-4

No Detections.

Client Sample ID: ID CH1018 BACK TANK TOP

Lab Sample ID: 480-91593-5

No Detections.

Client Sample ID: ID CH1018 FILTER TOWER

Lab Sample ID: 480-91593-6

No Detections.

Client Sample ID: ID CH1018 BACK TANK BOTTOM

Lab Sample ID: 480-91593-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID 4166 SIDE

Lab Sample ID: 480-91593-1

Date Collected: 11/21/15 13:40

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:34	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:34	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:34	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:34	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:34	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:34	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		59 - 171	11/24/15 07:47	11/24/15 18:34	1
Tetrachloro-m-xylene	85		57 - 173	11/24/15 07:47	11/24/15 18:34	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID 4166 BOTTOM

Lab Sample ID: 480-91593-2

Date Collected: 11/21/15 13:41

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:50	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:50	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:50	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:50	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:50	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:50	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		59 - 171	11/24/15 07:47	11/24/15 18:50	1
Tetrachloro-m-xylene	82		57 - 173	11/24/15 07:47	11/24/15 18:50	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID CH1018 FRONT TANK BOTTOM

Lab Sample ID: 480-91593-3

Date Collected: 11/21/15 13:46

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:06	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:06	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:06	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:06	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:06	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:06	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		59 - 171	11/24/15 07:47	11/24/15 19:06	1
Tetrachloro-m-xylene	87		57 - 173	11/24/15 07:47	11/24/15 19:06	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID CH1018 FRONT TANK TOP

Lab Sample ID: 480-91593-4

Date Collected: 11/21/15 13:49

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:22	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:22	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:22	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:22	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:22	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:22	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		59 - 171	11/24/15 07:47	11/24/15 19:22	1
Tetrachloro-m-xylene	94		57 - 173	11/24/15 07:47	11/24/15 19:22	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID CH1018 BACK TANK TOP

Lab Sample ID: 480-91593-5

Date Collected: 11/21/15 13:51

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:38	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:38	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:38	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:38	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:38	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:38	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		59 - 171	11/24/15 07:47	11/24/15 19:38	1
Tetrachloro-m-xylene	94		57 - 173	11/24/15 07:47	11/24/15 19:38	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID CH1018 FILTER TOWER

Lab Sample ID: 480-91593-6

Date Collected: 11/21/15 13:56

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:53	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:53	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:53	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:53	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:53	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:53	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		59 - 171	11/24/15 07:47	11/24/15 19:53	1
Tetrachloro-m-xylene	86		57 - 173	11/24/15 07:47	11/24/15 19:53	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID CH1018 BACK TANK BOTTOM

Lab Sample ID: 480-91593-7

Date Collected: 11/21/15 13:59

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 20:09	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 20:09	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 20:09	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 20:09	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 20:09	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 20:09	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		59 - 171	11/24/15 07:47	11/24/15 20:09	1
Tetrachloro-m-xylene	89		57 - 173	11/24/15 07:47	11/24/15 20:09	1

Surrogate Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Wipe

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (59-171)	TCX2 (57-173)
480-91593-1	ID 4166 SIDE	96	85
480-91593-2	ID 4166 BOTTOM	95	82
480-91593-3	ID CH1018 FRONT TANK BOTTOM	95	87
480-91593-4	ID CH1018 FRONT TANK TOP	98	94
480-91593-5	ID CH1018 BACK TANK TOP	106	94
480-91593-6	ID CH1018 FILTER TOWER	98	86
480-91593-7	ID CH1018 BACK TANK BOTTOM	94	89
LCS 480-276610/2-A	Lab Control Sample	110	95
LCSD 480-276610/3-A	Lab Control Sample Dup	105	89
MB 480-276610/1-A	Method Blank	100	97

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-276610/1-A
Matrix: Wipe
Analysis Batch: 276694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 17:47	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 17:47	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 17:47	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 17:47	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 17:47	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 17:47	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:47	11/24/15 17:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		59 - 171	11/24/15 07:47	11/24/15 17:47	1
Tetrachloro-m-xylene	97		57 - 173	11/24/15 07:47	11/24/15 17:47	1

Lab Sample ID: LCS 480-276610/2-A
Matrix: Wipe
Analysis Batch: 276694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	20.0	20.6		ug/Wipe		103	54 - 182
PCB-1260	20.0	20.1		ug/Wipe		101	53 - 187

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	110		59 - 171
Tetrachloro-m-xylene	95		57 - 173

Lab Sample ID: LCSD 480-276610/3-A
Matrix: Wipe
Analysis Batch: 276694

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 276610

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	20.0	19.8		ug/Wipe		99	54 - 182	4	50
PCB-1260	20.0	19.3		ug/Wipe		97	53 - 187	4	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	105		59 - 171
Tetrachloro-m-xylene	89		57 - 173

QC Association Summary

Client: Clean Harbors Environmental Services Inc
 Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

GC Semi VOA

Prep Batch: 276610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-91593-1	ID 4166 SIDE	Total/NA	Wipe	3550C	
480-91593-2	ID 4166 BOTTOM	Total/NA	Wipe	3550C	
480-91593-3	ID CH1018 FRONT TANK BOTTOM	Total/NA	Wipe	3550C	
480-91593-4	ID CH1018 FRONT TANK TOP	Total/NA	Wipe	3550C	
480-91593-5	ID CH1018 BACK TANK TOP	Total/NA	Wipe	3550C	
480-91593-6	ID CH1018 FILTER TOWER	Total/NA	Wipe	3550C	
480-91593-7	ID CH1018 BACK TANK BOTTOM	Total/NA	Wipe	3550C	
LCS 480-276610/2-A	Lab Control Sample	Total/NA	Wipe	3550C	
LCSD 480-276610/3-A	Lab Control Sample Dup	Total/NA	Wipe	3550C	
MB 480-276610/1-A	Method Blank	Total/NA	Wipe	3550C	

Analysis Batch: 276694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-91593-1	ID 4166 SIDE	Total/NA	Wipe	8082A	276610
480-91593-2	ID 4166 BOTTOM	Total/NA	Wipe	8082A	276610
480-91593-3	ID CH1018 FRONT TANK BOTTOM	Total/NA	Wipe	8082A	276610
480-91593-4	ID CH1018 FRONT TANK TOP	Total/NA	Wipe	8082A	276610
480-91593-5	ID CH1018 BACK TANK TOP	Total/NA	Wipe	8082A	276610
480-91593-6	ID CH1018 FILTER TOWER	Total/NA	Wipe	8082A	276610
480-91593-7	ID CH1018 BACK TANK BOTTOM	Total/NA	Wipe	8082A	276610
LCS 480-276610/2-A	Lab Control Sample	Total/NA	Wipe	8082A	276610
LCSD 480-276610/3-A	Lab Control Sample Dup	Total/NA	Wipe	8082A	276610
MB 480-276610/1-A	Method Blank	Total/NA	Wipe	8082A	276610

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID 4166 SIDE

Date Collected: 11/21/15 13:40

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91593-1

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276610	11/24/15 07:47	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 18:34	JMO	TAL BUF

Client Sample ID: ID 4166 BOTTOM

Date Collected: 11/21/15 13:41

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91593-2

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276610	11/24/15 07:47	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 18:50	JMO	TAL BUF

Client Sample ID: ID CH1018 FRONT TANK BOTTOM

Date Collected: 11/21/15 13:46

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91593-3

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276610	11/24/15 07:47	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 19:06	JMO	TAL BUF

Client Sample ID: ID CH1018 FRONT TANK TOP

Date Collected: 11/21/15 13:49

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91593-4

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276610	11/24/15 07:47	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 19:22	JMO	TAL BUF

Client Sample ID: ID CH1018 BACK TANK TOP

Date Collected: 11/21/15 13:51

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91593-5

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276610	11/24/15 07:47	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 19:38	JMO	TAL BUF

Client Sample ID: ID CH1018 FILTER TOWER

Date Collected: 11/21/15 13:56

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91593-6

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276610	11/24/15 07:47	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 19:53	JMO	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Client Sample ID: ID CH1018 BACK TANK BOTTOM

Lab Sample ID: 480-91593-7

Date Collected: 11/21/15 13:59

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276610	11/24/15 07:47	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 20:09	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Certification Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

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Method Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-91593-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-91593-1	ID 4166 SIDE	Wipe	11/21/15 13:40	11/23/15 09:24
480-91593-2	ID 4166 BOTTOM	Wipe	11/21/15 13:41	11/23/15 09:24
480-91593-3	ID CH1018 FRONT TANK BOTTOM	Wipe	11/21/15 13:46	11/23/15 09:24
480-91593-4	ID CH1018 FRONT TANK TOP	Wipe	11/21/15 13:49	11/23/15 09:24
480-91593-5	ID CH1018 BACK TANK TOP	Wipe	11/21/15 13:51	11/23/15 09:24
480-91593-6	ID CH1018 FILTER TOWER	Wipe	11/21/15 13:56	11/23/15 09:24
480-91593-7	ID CH1018 BACK TANK BOTTOM	Wipe	11/21/15 13:59	11/23/15 09:24

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

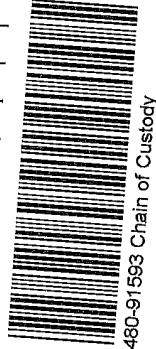
Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: Clean harbors Address: _____
 Project Manager: Chris Nelson Telephone Number (Area Code)/Fax Number: _____
 Date: 11-15-15 Chain of Custody Number: 273816
 City: _____ Lab Number: _____ Page: _____ of _____
 State: _____ Zip Code: _____
 Site Contact: Chris Nelson Lab Contact: _____
 Carrier/Maybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Soil	Sed.	Sludges	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			H2O2
ID 4166 side	11-21-15	1346													
ID 4166 Bottom	11-21-15	1341													
ID CH1018 Front tank bottom	11-21-15	1346													
ID CH1019 Front tank top	11-21-15	1349													
ID CH1016 Back tank top	11-21-15	1351													
ID CH1018 F. Her tower	11-21-15	1356													
ID CH1018 back tank bottom	11-21-15	1359													



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Poison A 7 Days 14 Days 21 Days Other

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify)

1. Relinquished By: Chris Nelson Date: 11-23 Time: 0924
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: Chris Nelson Date: 11/23/15 Time: 0924
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: _____



Login Sample Receipt Checklist

Client: Clean Harbors Environmental Services Inc

Job Number: 480-91593-1

Login Number: 91593

List Number: 1

Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No: Thermal preservation not required
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CLEAN HARBORS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-91594-1

Client Project/Site: Clean Harbors - Norwell, MA

For:

Clean Harbors Environmental Services Inc

42 Longwater Drive

Norwell, Massachusetts 02061

Attn: Chris Nelson



Authorized for release by:

11/25/2015 12:54:34 PM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II

(716)504-9838

john.schove@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Job ID: 480-91594-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-91594-1

Comments

No additional comments.

Receipt

The samples were received on 11/23/2015 9:24 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.1° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 254297 PASS SIDE 7' UP

Lab Sample ID: 480-91594-1

No Detections.

Client Sample ID: 254297 BACK WALL 5' UP

Lab Sample ID: 480-91594-2

No Detections.

Client Sample ID: 254297 FRONT WALL 3' UP

Lab Sample ID: 480-91594-3

No Detections.

Client Sample ID: 254297 DRIVER WALL 4' UP

Lab Sample ID: 480-91594-4

No Detections.

Client Sample ID: 254297 FLOOR AT "V"

Lab Sample ID: 480-91594-5

No Detections.

Client Sample ID: 29735 PASS SIDE 7' UP

Lab Sample ID: 480-91594-6

No Detections.

Client Sample ID: 29735 BACK WALL 5' UP

Lab Sample ID: 480-91594-7

No Detections.

Client Sample ID: 29735 FRONT WALL 3' UP

Lab Sample ID: 480-91594-8

No Detections.

Client Sample ID: 29735 DRIVER WALL 4' UP

Lab Sample ID: 480-91594-9

No Detections.

Client Sample ID: 29735 FLOOR AT "V"

Lab Sample ID: 480-91594-10

No Detections.

Client Sample ID: 251180 DRIVER WALL 4' UP

Lab Sample ID: 480-91594-11

No Detections.

Client Sample ID: 251180 FRONT WALL 3' UP

Lab Sample ID: 480-91594-12

No Detections.

Client Sample ID: 251180 BACK WALL 5' UP

Lab Sample ID: 480-91594-13

No Detections.

Client Sample ID: 251180 PASS WALL 7' UP

Lab Sample ID: 480-91594-14

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 251180 FLOOR AT "V"

Lab Sample ID: 480-91594-15

No Detections.

Client Sample ID: POT 260380

Lab Sample ID: 480-91594-16

No Detections.

Client Sample ID: POT 260385

Lab Sample ID: 480-91594-17

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 254297 PASS SIDE 7' UP

Lab Sample ID: 480-91594-1

Date Collected: 11/21/15 16:16

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:34	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:34	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:34	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:34	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:34	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:34	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		59 - 171	11/24/15 07:43	11/24/15 12:34	1
Tetrachloro-m-xylene	87		57 - 173	11/24/15 07:43	11/24/15 12:34	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 254297 BACK WALL 5' UP

Lab Sample ID: 480-91594-2

Date Collected: 11/21/15 16:17

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:49	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:49	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:49	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:49	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:49	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:49	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		59 - 171	11/24/15 07:43	11/24/15 12:49	1
Tetrachloro-m-xylene	87		57 - 173	11/24/15 07:43	11/24/15 12:49	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 254297 FRONT WALL 3' UP

Lab Sample ID: 480-91594-3

Date Collected: 11/21/15 16:15

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:04	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:04	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:04	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:04	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:04	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:04	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		59 - 171	11/24/15 07:43	11/24/15 13:04	1
Tetrachloro-m-xylene	92		57 - 173	11/24/15 07:43	11/24/15 13:04	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 254297 DRIVER WALL 4' UP

Lab Sample ID: 480-91594-4

Date Collected: 11/21/15 16:15

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:19	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:19	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:19	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:19	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:19	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:19	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	99		59 - 171	11/24/15 07:43	11/24/15 13:19	1
<i>Tetrachloro-m-xylene</i>	98		57 - 173	11/24/15 07:43	11/24/15 13:19	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 254297 FLOOR AT "V"

Lab Sample ID: 480-91594-5

Date Collected: 11/21/15 16:17

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:33	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:33	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:33	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:33	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:33	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:33	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		59 - 171	11/24/15 07:43	11/24/15 13:33	1
Tetrachloro-m-xylene	90		57 - 173	11/24/15 07:43	11/24/15 13:33	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 29735 PASS SIDE 7' UP

Lab Sample ID: 480-91594-6

Date Collected: 11/21/15 16:30

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:48	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:48	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:48	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:48	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:48	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:48	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		59 - 171	11/24/15 07:43	11/24/15 13:48	1
Tetrachloro-m-xylene	92		57 - 173	11/24/15 07:43	11/24/15 13:48	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 29735 BACK WALL 5' UP

Lab Sample ID: 480-91594-7

Date Collected: 11/21/15 16:30

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:03	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:03	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:03	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:03	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:03	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:03	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		59 - 171	11/24/15 07:43	11/24/15 14:03	1
Tetrachloro-m-xylene	85		57 - 173	11/24/15 07:43	11/24/15 14:03	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 29735 FRONT WALL 3' UP

Lab Sample ID: 480-91594-8

Date Collected: 11/21/15 16:31

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:47	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:47	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:47	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:47	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:47	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:47	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		59 - 171	11/24/15 07:43	11/24/15 14:47	1
Tetrachloro-m-xylene	84		57 - 173	11/24/15 07:43	11/24/15 14:47	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 29735 DRIVER WALL 4' UP

Lab Sample ID: 480-91594-9

Date Collected: 11/21/15 16:31

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:02	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:02	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:02	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:02	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:02	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:02	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		59 - 171	11/24/15 07:43	11/24/15 15:02	1
Tetrachloro-m-xylene	86		57 - 173	11/24/15 07:43	11/24/15 15:02	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 29735 FLOOR AT "V"

Lab Sample ID: 480-91594-10

Date Collected: 11/21/15 16:31

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:17	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:17	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:17	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:17	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:17	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:17	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		59 - 171	11/24/15 07:43	11/24/15 15:17	1
Tetrachloro-m-xylene	86		57 - 173	11/24/15 07:43	11/24/15 15:17	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 251180 DRIVER WALL 4'UP

Lab Sample ID: 480-91594-11

Date Collected: 11/21/15 16:37

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:32	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:32	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:32	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:32	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:32	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:32	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		59 - 171	11/24/15 07:43	11/24/15 15:32	1
Tetrachloro-m-xylene	91		57 - 173	11/24/15 07:43	11/24/15 15:32	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 251180 FRONT WALL 3' UP

Lab Sample ID: 480-91594-12

Date Collected: 11/21/15 16:35

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:47	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:47	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:47	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:47	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:47	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:47	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		59 - 171	11/24/15 07:43	11/24/15 15:47	1
Tetrachloro-m-xylene	87		57 - 173	11/24/15 07:43	11/24/15 15:47	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 251180 BACK WALL 5' UP

Lab Sample ID: 480-91594-13

Date Collected: 11/21/15 16:36

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:01	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:01	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:01	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:01	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:01	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:01	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		59 - 171	11/24/15 07:43	11/24/15 16:01	1
Tetrachloro-m-xylene	91		57 - 173	11/24/15 07:43	11/24/15 16:01	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 251180 PASS WALL 7' UP

Lab Sample ID: 480-91594-14

Date Collected: 11/21/15 16:35

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:16	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:16	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:16	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:16	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:16	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:16	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		59 - 171	11/24/15 07:43	11/24/15 16:16	1
Tetrachloro-m-xylene	97		57 - 173	11/24/15 07:43	11/24/15 16:16	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 251180 FLOOR AT "V"

Lab Sample ID: 480-91594-15

Date Collected: 11/21/15 16:36

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:31	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:31	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:31	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:31	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:31	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:31	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		59 - 171	11/24/15 07:43	11/24/15 16:31	1
Tetrachloro-m-xylene	106		57 - 173	11/24/15 07:43	11/24/15 16:31	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: POT 260380

Lab Sample ID: 480-91594-16

Date Collected: 11/21/15 16:40

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:46	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:46	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:46	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:46	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:46	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:46	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		59 - 171	11/24/15 07:43	11/24/15 16:46	1
Tetrachloro-m-xylene	88		57 - 173	11/24/15 07:43	11/24/15 16:46	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: POT 260385

Lab Sample ID: 480-91594-17

Date Collected: 11/21/15 16:40

Matrix: Wipe

Date Received: 11/23/15 09:24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 17:00	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 17:00	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 17:00	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 17:00	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 17:00	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 17:00	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		59 - 171	11/24/15 07:43	11/24/15 17:00	1
Tetrachloro-m-xylene	88		57 - 173	11/24/15 07:43	11/24/15 17:00	1

Surrogate Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Wipe

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (59-171)	TCX2 (57-173)
480-91594-1	254297 PASS SIDE 7' UP	89	87
480-91594-2	254297 BACK WALL 5' UP	90	87
480-91594-3	254297 FRONT WALL 3' UP	93	92
480-91594-4	254297 DRIVER WALL 4' UP	99	98
480-91594-5	254297 FLOOR AT "V"	96	90
480-91594-6	29735 PASS SIDE 7' UP	92	92
480-91594-7	29735 BACK WALL 5' UP	92	85
480-91594-8	29735 FRONT WALL 3' UP	93	84
480-91594-9	29735 DRIVER WALL 4' UP	93	86
480-91594-10	29735 FLOOR AT "V"	90	86
480-91594-11	251180 DRIVER WALL 4'UP	93	91
480-91594-12	251180 FRONT WALL 3' UP	93	87
480-91594-13	251180 BACK WALL 5' UP	96	91
480-91594-14	251180 PASS WALL 7' UP	99	97
480-91594-15	251180 FLOOR AT "V"	109	106
480-91594-16	POT 260380	94	88
480-91594-17	POT 260385	91	88
LCS 480-276609/2-A	Lab Control Sample	96	91
LCSD 480-276609/3-A	Lab Control Sample Dup	101	97
MB 480-276609/1-A	Method Blank	96	95

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-276609/1-A
Matrix: Wipe
Analysis Batch: 276694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 11:50	1
PCB-1221	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 11:50	1
PCB-1232	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 11:50	1
PCB-1242	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 11:50	1
PCB-1248	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 11:50	1
PCB-1254	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 11:50	1
PCB-1260	ND		1.0		ug/Wipe		11/24/15 07:43	11/24/15 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		59 - 171	11/24/15 07:43	11/24/15 11:50	1
Tetrachloro-m-xylene	95		57 - 173	11/24/15 07:43	11/24/15 11:50	1

Lab Sample ID: LCS 480-276609/2-A
Matrix: Wipe
Analysis Batch: 276694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	20.0	21.1		ug/Wipe		105	54 - 182
PCB-1260	20.0	20.7		ug/Wipe		103	53 - 187

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	96		59 - 171
Tetrachloro-m-xylene	91		57 - 173

Lab Sample ID: LCSD 480-276609/3-A
Matrix: Wipe
Analysis Batch: 276694

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 276609

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	20.0	21.4		ug/Wipe		107	54 - 182	2	50
PCB-1260	20.0	21.1		ug/Wipe		105	53 - 187	2	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	101		59 - 171
Tetrachloro-m-xylene	97		57 - 173

QC Association Summary

Client: Clean Harbors Environmental Services Inc
 Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

GC Semi VOA

Prep Batch: 276609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-91594-1	254297 PASS SIDE 7' UP	Total/NA	Wipe	3550C	
480-91594-2	254297 BACK WALL 5' UP	Total/NA	Wipe	3550C	
480-91594-3	254297 FRONT WALL 3' UP	Total/NA	Wipe	3550C	
480-91594-4	254297 DRIVER WALL 4' UP	Total/NA	Wipe	3550C	
480-91594-5	254297 FLOOR AT "V"	Total/NA	Wipe	3550C	
480-91594-6	29735 PASS SIDE 7' UP	Total/NA	Wipe	3550C	
480-91594-7	29735 BACK WALL 5' UP	Total/NA	Wipe	3550C	
480-91594-8	29735 FRONT WALL 3' UP	Total/NA	Wipe	3550C	
480-91594-9	29735 DRIVER WALL 4' UP	Total/NA	Wipe	3550C	
480-91594-10	29735 FLOOR AT "V"	Total/NA	Wipe	3550C	
480-91594-11	251180 DRIVER WALL 4'UP	Total/NA	Wipe	3550C	
480-91594-12	251180 FRONT WALL 3' UP	Total/NA	Wipe	3550C	
480-91594-13	251180 BACK WALL 5' UP	Total/NA	Wipe	3550C	
480-91594-14	251180 PASS WALL 7' UP	Total/NA	Wipe	3550C	
480-91594-15	251180 FLOOR AT "V"	Total/NA	Wipe	3550C	
480-91594-16	POT 260380	Total/NA	Wipe	3550C	
480-91594-17	POT 260385	Total/NA	Wipe	3550C	
LCS 480-276609/2-A	Lab Control Sample	Total/NA	Wipe	3550C	
LCSD 480-276609/3-A	Lab Control Sample Dup	Total/NA	Wipe	3550C	
MB 480-276609/1-A	Method Blank	Total/NA	Wipe	3550C	

Analysis Batch: 276694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-91594-1	254297 PASS SIDE 7' UP	Total/NA	Wipe	8082A	276609
480-91594-2	254297 BACK WALL 5' UP	Total/NA	Wipe	8082A	276609
480-91594-3	254297 FRONT WALL 3' UP	Total/NA	Wipe	8082A	276609
480-91594-4	254297 DRIVER WALL 4' UP	Total/NA	Wipe	8082A	276609
480-91594-5	254297 FLOOR AT "V"	Total/NA	Wipe	8082A	276609
480-91594-6	29735 PASS SIDE 7' UP	Total/NA	Wipe	8082A	276609
480-91594-7	29735 BACK WALL 5' UP	Total/NA	Wipe	8082A	276609
480-91594-8	29735 FRONT WALL 3' UP	Total/NA	Wipe	8082A	276609
480-91594-9	29735 DRIVER WALL 4' UP	Total/NA	Wipe	8082A	276609
480-91594-10	29735 FLOOR AT "V"	Total/NA	Wipe	8082A	276609
480-91594-11	251180 DRIVER WALL 4'UP	Total/NA	Wipe	8082A	276609
480-91594-12	251180 FRONT WALL 3' UP	Total/NA	Wipe	8082A	276609
480-91594-13	251180 BACK WALL 5' UP	Total/NA	Wipe	8082A	276609
480-91594-14	251180 PASS WALL 7' UP	Total/NA	Wipe	8082A	276609
480-91594-15	251180 FLOOR AT "V"	Total/NA	Wipe	8082A	276609
480-91594-16	POT 260380	Total/NA	Wipe	8082A	276609
480-91594-17	POT 260385	Total/NA	Wipe	8082A	276609
LCS 480-276609/2-A	Lab Control Sample	Total/NA	Wipe	8082A	276609
LCSD 480-276609/3-A	Lab Control Sample Dup	Total/NA	Wipe	8082A	276609
MB 480-276609/1-A	Method Blank	Total/NA	Wipe	8082A	276609

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 254297 PASS SIDE 7' UP

Date Collected: 11/21/15 16:16

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91594-1

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 12:34	JMO	TAL BUF

Client Sample ID: 254297 BACK WALL 5' UP

Date Collected: 11/21/15 16:17

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91594-2

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 12:49	JMO	TAL BUF

Client Sample ID: 254297 FRONT WALL 3' UP

Date Collected: 11/21/15 16:15

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91594-3

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 13:04	JMO	TAL BUF

Client Sample ID: 254297 DRIVER WALL 4' UP

Date Collected: 11/21/15 16:15

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91594-4

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 13:19	JMO	TAL BUF

Client Sample ID: 254297 FLOOR AT "V"

Date Collected: 11/21/15 16:17

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91594-5

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 13:33	JMO	TAL BUF

Client Sample ID: 29735 PASS SIDE 7' UP

Date Collected: 11/21/15 16:30

Date Received: 11/23/15 09:24

Lab Sample ID: 480-91594-6

Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 13:48	JMO	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 29735 BACK WALL 5' UP

Lab Sample ID: 480-91594-7

Date Collected: 11/21/15 16:30

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 14:03	JMO	TAL BUF

Client Sample ID: 29735 FRONT WALL 3' UP

Lab Sample ID: 480-91594-8

Date Collected: 11/21/15 16:31

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 14:47	JMO	TAL BUF

Client Sample ID: 29735 DRIVER WALL 4' UP

Lab Sample ID: 480-91594-9

Date Collected: 11/21/15 16:31

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 15:02	JMO	TAL BUF

Client Sample ID: 29735 FLOOR AT "V"

Lab Sample ID: 480-91594-10

Date Collected: 11/21/15 16:31

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 15:17	JMO	TAL BUF

Client Sample ID: 251180 DRIVER WALL 4'UP

Lab Sample ID: 480-91594-11

Date Collected: 11/21/15 16:37

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 15:32	JMO	TAL BUF

Client Sample ID: 251180 FRONT WALL 3' UP

Lab Sample ID: 480-91594-12

Date Collected: 11/21/15 16:35

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 15:47	JMO	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Client Sample ID: 251180 BACK WALL 5' UP

Lab Sample ID: 480-91594-13

Date Collected: 11/21/15 16:36

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 16:01	JMO	TAL BUF

Client Sample ID: 251180 PASS WALL 7' UP

Lab Sample ID: 480-91594-14

Date Collected: 11/21/15 16:35

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 16:16	JMO	TAL BUF

Client Sample ID: 251180 FLOOR AT "V"

Lab Sample ID: 480-91594-15

Date Collected: 11/21/15 16:36

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 16:31	JMO	TAL BUF

Client Sample ID: POT 260380

Lab Sample ID: 480-91594-16

Date Collected: 11/21/15 16:40

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 16:46	JMO	TAL BUF

Client Sample ID: POT 260385

Lab Sample ID: 480-91594-17

Date Collected: 11/21/15 16:40

Matrix: Wipe

Date Received: 11/23/15 09:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			276609	11/24/15 07:43	CAM	TAL BUF
Total/NA	Analysis	8082A		1	276694	11/24/15 17:00	JMO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

1

2

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Method Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Clean Harbors - Norwell, MA

TestAmerica Job ID: 480-91594-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-91594-1	254297 PASS SIDE 7' UP	Wipe	11/21/15 16:16	11/23/15 09:24
480-91594-2	254297 BACK WALL 5' UP	Wipe	11/21/15 16:17	11/23/15 09:24
480-91594-3	254297 FRONT WALL 3' UP	Wipe	11/21/15 16:15	11/23/15 09:24
480-91594-4	254297 DRIVER WALL 4' UP	Wipe	11/21/15 16:15	11/23/15 09:24
480-91594-5	254297 FLOOR AT "V"	Wipe	11/21/15 16:17	11/23/15 09:24
480-91594-6	29735 PASS SIDE 7' UP	Wipe	11/21/15 16:30	11/23/15 09:24
480-91594-7	29735 BACK WALL 5' UP	Wipe	11/21/15 16:30	11/23/15 09:24
480-91594-8	29735 FRONT WALL 3' UP	Wipe	11/21/15 16:31	11/23/15 09:24
480-91594-9	29735 DRIVER WALL 4' UP	Wipe	11/21/15 16:31	11/23/15 09:24
480-91594-10	29735 FLOOR AT "V"	Wipe	11/21/15 16:31	11/23/15 09:24
480-91594-11	251180 DRIVER WALL 4'UP	Wipe	11/21/15 16:37	11/23/15 09:24
480-91594-12	251180 FRONT WALL 3' UP	Wipe	11/21/15 16:35	11/23/15 09:24
480-91594-13	251180 BACK WALL 5' UP	Wipe	11/21/15 16:36	11/23/15 09:24
480-91594-14	251180 PASS WALL 7' UP	Wipe	11/21/15 16:35	11/23/15 09:24
480-91594-15	251180 FLOOR AT "V"	Wipe	11/21/15 16:36	11/23/15 09:24
480-91594-16	POT 260380	Wipe	11/21/15 16:40	11/23/15 09:24
480-91594-17	POT 260385	Wipe	11/21/15 16:40	11/23/15 09:24

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: CleanHarbors Project Manager: Chris Nelson Chain of Custody Number: 273815

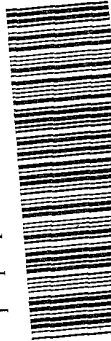
Address: _____ Telephone Number (Area Code)/Fax Number: _____ Lab Number: _____

City: _____ State: _____ Zip Code: _____ Date: _____

Site Contact: Chris Nelson Lab Contact: _____ Page 1 of 2

Project Name and Location (State): ge Tennawanda Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc			NaOH
254297 Pass side 7'UP	11-21-15	1616													
" " Back wall 5'UP	11-21-15	1617													
" " Front wall 3'UP	11-21-15	1615													
" " Drivewall 4'UP	11-21-15	1615													
" " Floor at 4"	11-21-15	1617													
29735 Pass side 7'UP	11-21-15	1630													
" " Back wall 5'UP		1630													
" " Front wall 3'UP		1631													
" " Drivewall 4'UP		1631													
" " Floor ATV"		1631													



480-91594 Chain of Custody

Possible Hazard Identification: Non-hazard Flammable Skin Irritant Poison B Unknown Other

Sample Disposal: Return To Client Archive For _____ Months Disposal By Lab (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

QC Requirements (Specify): _____

Relinquished By: Chris Nelson Date: 11-23-15 Time: 0924

Relinquished By: Michelle May Date: 11-23-15 Time: 0924

Relinquished By: _____ Date: _____ Time: _____

Comments: _____



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: Clean Harbors Project Manager: Chris Nelson Chain of Custody Number: 273814
 Address: _____ Telephone Number (Area Code)/Fax Number: _____ Lab Number: _____
 City: _____ State: _____ Zip Code: _____ Date: _____
 Page 2 of 2

Site Contact: Chris Nelson Lab Contact: _____ Analysis (Attach list if more space is needed): _____
 Carrier/Waybill Number: _____
 Project Name and Location (State): _____
GE TONSERANDA
 Contract/Purchase Order/Quote No. _____

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives												
			Air	Sed	Soil	Aqueous	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Hex							
251150 Driver wall 4'CP	11-21-15	1637																		
" " Front wall 3'CP		1635																		
" " Back wall 5'CP		1636																		
" " Pass wall 7'CP		1635																		
" " Storage 14"		1636																		
POT 260390		1640																		
POT 260305	11-21-15	1640																		

Sample Disposal: Disposal By Lab Return To Client Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify): _____

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By: [Signature] Date: 11-23-15 Time: 0924

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Comments: _____



Login Sample Receipt Checklist

Client: Clean Harbors Environmental Services Inc

Job Number: 480-91594-1

Login Number: 91594

List Source: TestAmerica Buffalo

List Number: 1

Creator: Hulbert, Michael J

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No: Thermal preservation not required
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CLEAN HARBORS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	