

APPENDIX D
ANALYTICAL LABORATORY DATA REPORTS
(D-1 – GROUNDWATER DATA)

Table D-1
Laboratory Reports and Sample Key
Post-Closure Groundwater Monitoring
Site No. 9-15-066, Cheektowaga, New York

Well No.	Sample Numbers by Date of Sampling and Laboratory Report Number			
	11/24/14	04/01/15	06/18/15	09/10/15
	J39256	J42633	J45236	J47663
MW-2	WG-18036-112414-SG-006	WG-18036-061815-SG-007	WG-18036-061815-SG-008	WG-18036-091015-SG-006
MW-5	WG-18036-112414-SG-010	WG-18036-061815-SG-009	WG-18036-061815-SG-009	WG-18036-091015-SG-010
MW-5 (dup)	WG-18036-112414-SG-011			
MW-28	WG-18036-112414-SG-008	WG-18036-061815-SG-010	WG-18036-061815-SG-010	WG-18036-091015-SG-008
MW-30	WG-18036-112414-SG-003	WG-18036-061815-DJT-003	WG-18036-061815-DJT-003	WG-18036-091015-DT-001
MW-31	WG-18036-112414-SG-009	WG-18036-061815-SG-011	WG-18036-061815-SG-011	WG-18036-091015-SG-011
MW-32	WG-18036-112414-SG-007	WG-18036-061815-DJT-008	WG-18036-061815-DJT-007	WG-18036-091015-DT-007
MW-32 (dup)				WG-18036-091015-DT-009
MW-33	WG-18036-112414-SG-005	WG-18036-061815-DJT-005	WG-18036-061815-DJT-005	WG-18036-091015-DT-005
MW-34	WG-18036-112414-SG-002	WG-18036-061815-SG-002	WG-18036-061815-SG-002	WG-18036-091015-SG-004
MW-34D	WG-18036-112414-SG-001	WG-18036-061815-DJT-001	WG-18036-061815-DJT-001	WG-18036-091015-DT-003
MW-35	WG-18036-112414-SG-004	WG-18036-061815-SG-004	WG-18036-061815-SG-004	WG-18036-091015-SG-002
MW-35 (dup)		WG-18036-061815-SG-006	WG-18036-061815-SG-006	
Trip Blank	TB-18036-112414-SG	TB-18036-061815-DJT	TB-18036-061815-DJT	TB-18036-091015-SG

See notes at end of table.

Table D-1
Laboratory Reports and Sample Key
Post-Closure Groundwater Monitoring
Site No. 9-15-066, Cheektowaga, New York

Well No.	Sample Numbers by Date of Sampling and Laboratory Report Number			
	12/10/15	03/17/16	06/23/16	09/20/16
	J50648	J53149	J55990	J58893
MW-2	WG-18036-121015-SG-006	WG-18036-031716-008-SG	WG-18036-062316-SG-006	WG-18036-092016-SG-008
MW-5	WG-18036-121015-SG-010	WG-18036-031716-009-SG	WG-18036-062316-SG-011	WG-18036-092016-SG-009
MW-5 (dup)				
MW-28	WG-18036-121015-SG-008	WG-18036-031716-010-SG	WG-18036-062316-SG-008	WG-18036-092016-SG-010
MW-30	WG-18036-121015-DT-003	WG-18036-031716-DT-003	WG-18036-062316-SG-003	WG-18036-092016-SG-003
MW-31	WG-18036-121015-SG-011	WG-18036-031716-011-SG	WG-18036-062316-SG-010	WG-18036-092016-SG-011
MW-32	WG-18036-121015-DT-007	WG-18036-031716-DT-007	WG-18036-062316-SG-007	WG-18036-092016-SG-007
MW-32 (dup)	WG-18036-121015-DT-009		WG-18036-062316-SG-009	
MW-33	WG-18036-121015-DT-005	WG-18036-031716-DT-005	WG-18036-062316-SG-005	WG-18036-092016-SG-005
MW-34	WG-18036-121015-SG-002	WG-18036-031716-002-SG	WG-18036-062316-SG-002	WG-18036-092016-SG-002
MW-34D	WG-18036-121015-DT-001	WG-18036-031716-DT-001	WG-18036-062316-SG-001	WG-18036-092016-SG-001
MW-35	WG-18036-121015-SG-004	WG-18036-031716-004-SG	WG-18036-062316-SG-004	WG-18036-092016-SG-004
MW-35 (dup)		WG-18036-031716-006-SG		WG-18036-092016-SG-006
Trip Blank	TB-18036-121015-DT	TB-18036-031716-DT	TB-18036-062316-SG	TB-18036-092016-SG

Note :

1. After receipt at the laboratory, containers for the groundwater sample collected at well MW-34D were accidentally broken. CRA resampled MW-34D and submitted the sample to TestAmerica on December 2, 2014. The re-sample was analyzed, and results were reported in Laboratory Report J39417.
2. All nine laboratory reports (including J39417) were subsequently revised by TestAmerica to include the quantification of trans-1,2-dichloroethylene concentrations. This appendix provides the revised versions of these laboratory reports.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-39256-1

Client Project/Site: Buffalo Airport

Revision: 1

For:

Leo Brausch Consulting

131 Wedgewood Drive

Gibsonia, Pennsylvania 15044

Attn: Mr. Leo Brausch



Authorized for release by:

11/10/2016 3:57:14 PM

Jill Colussy, Project Manager I

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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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Case Narrative

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Job ID: 180-39256-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-39256-1 RE

Note

This report has been revised as per the client.

Receipt

The samples were received on 11/25/2014 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.1° C, 3.8° C and 4.1° C.

The sample receiving technician dropped and broke all of the VOA vials for sample WG-18036-112414-SG-001 and the TRIP BLANK. The client was contacted and the sample will be re-submitted to the laboratory for VOA analysis.

GC/MS VOA

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

Metals

Samples WG-18036-112414-SG-006 (180-39256-6), WG-18036-112414-SG-008 (180-39256-8), and WG-18036-112414-SG-009 (180-39256-9) were analyzed at dilution for lead. This analyte is reported from the 6500ICP, for which internal standards, indium and yttrium, are added to all standards and samples during analysis. The indium counts in these samples were outside of QC criteria (70-130% of the indium counts in the ICB), therefore, the analyte referencing indium was diluted for analysis. Elevated reporting limits (RLs) are provided.

Definitions/Glossary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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)

Certification Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-17
California	State Program	9	2891	03-31-18
Connecticut	State Program	1	PH-0688	09-30-18
Florida	NELAP	4	E871008	06-30-17
Illinois	NELAP	5	200005	06-30-17
Kansas	NELAP	7	E-10350	01-31-17
Louisiana	NELAP	6	04041	06-30-17
New Hampshire	NELAP	1	2030	04-04-17
New Jersey	NELAP	2	PA005	06-30-17
New York	NELAP	2	11182	03-31-17
North Carolina (WW/SW)	State Program	4	434	12-31-16
Pennsylvania	NELAP	3	02-00416	04-30-17
South Carolina	State Program	4	89014	04-30-17
Texas	NELAP	6	T104704528-15-2	03-31-17
US Fish & Wildlife	Federal		LE94312A-1	10-31-17
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-17
Virginia	NELAP	3	460189	09-14-17
West Virginia DEP	State Program	3	142	01-31-17
Wisconsin	State Program	5	998027800	08-31-17

Sample Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-39256-1	WG-18036-112414-SG-001	Water	11/24/14 10:00	11/25/14 09:40
180-39256-2	WG-18036-112414-SG-002	Water	11/24/14 09:30	11/25/14 09:40
180-39256-3	WG-18036-112414-SG-003	Water	11/24/14 11:00	11/25/14 09:40
180-39256-4	WG-18036-112414-SG-004	Water	11/24/14 10:25	11/25/14 09:40
180-39256-5	WG-18036-112414-SG-005	Water	11/24/14 11:40	11/25/14 09:40
180-39256-6	WG-18036-112414-SG-006	Water	11/24/14 11:45	11/25/14 09:40
180-39256-7	WG-18036-112414-SG-007	Water	11/24/14 13:25	11/25/14 09:40
180-39256-8	WG-18036-112414-SG-008	Water	11/24/14 13:00	11/25/14 09:40
180-39256-9	WG-18036-112414-SG-009	Water	11/24/14 15:05	11/25/14 09:40
180-39256-10	WG-18036-112414-SG-010	Water	11/24/14 14:00	11/25/14 09:40
180-39256-11	WG-18036-112414-SG-011	Water	11/24/14 14:00	11/25/14 09:40



Method Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Client Sample ID: WG-18036-112414-SG-001

Lab Sample ID: 180-39256-1

Date Collected: 11/24/14 10:00

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 16:25	RJR	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-002

Lab Sample ID: 180-39256-2

Date Collected: 11/24/14 09:30

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 02:34	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 16:45	RJR	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-003

Lab Sample ID: 180-39256-3

Date Collected: 11/24/14 11:00

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 03:22	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 16:50	RJR	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-004

Lab Sample ID: 180-39256-4

Date Collected: 11/24/14 10:25

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 03:46	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 17:05	RJR	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-005

Lab Sample ID: 180-39256-5

Date Collected: 11/24/14 11:40

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 04:11	DLF	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Client Sample ID: WG-18036-112414-SG-005

Lab Sample ID: 180-39256-5

Date Collected: 11/24/14 11:40

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 04:11	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 17:11	RJR	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-006

Lab Sample ID: 180-39256-6

Date Collected: 11/24/14 11:45

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 04:59	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 17:16	RJR	TAL PIT
Instrument ID: C										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			127307	12/04/14 14:14	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-007

Lab Sample ID: 180-39256-7

Date Collected: 11/24/14 13:25

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 05:23	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 17:21	RJR	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-008

Lab Sample ID: 180-39256-8

Date Collected: 11/24/14 13:00

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 05:47	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 17:41	RJR	TAL PIT
Instrument ID: C										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT

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Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Client Sample ID: WG-18036-112414-SG-008

Lab Sample ID: 180-39256-8

Date Collected: 11/24/14 13:00

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	200.7 Rev 4.4		2			127307	12/04/14 14:19	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-009

Lab Sample ID: 180-39256-9

Date Collected: 11/24/14 15:05

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 06:36	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 17:47	RJR	TAL PIT
Instrument ID: C										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			127307	12/04/14 14:25	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-010

Lab Sample ID: 180-39256-10

Date Collected: 11/24/14 14:00

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 07:00	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 17:52	RJR	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-112414-SG-011

Lab Sample ID: 180-39256-11

Date Collected: 11/24/14 14:00

Matrix: Water

Date Received: 11/25/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127358	12/06/14 07:24	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	126786	12/01/14 02:35	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			127025	12/02/14 18:07	RJR	TAL PIT
Instrument ID: C										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

SLB = Sandy Becker

Batch Type: Analysis

DLF = Donald Ferguson

RJG = Rob Good

RJR = Ron Rosenbaum

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Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Client Sample ID: WG-18036-112414-SG-001

Lab Sample ID: 180-39256-1

Date Collected: 11/24/14 10:00

Matrix: Water

Date Received: 11/25/14 09:40

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.13	J	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 16:25	1
Lead	10	U	10	1.2	ug/L		12/01/14 02:35	12/02/14 16:25	1

Client Sample ID: WG-18036-112414-SG-002

Lab Sample ID: 180-39256-2

Date Collected: 11/24/14 09:30

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 02:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/06/14 02:34	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 02:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 02:34	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/06/14 02:34	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/06/14 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 135					12/06/14 02:34	1
4-Bromofluorobenzene (Surr)	97		62 - 123					12/06/14 02:34	1
Dibromofluoromethane (Surr)	104		64 - 128					12/06/14 02:34	1
Toluene-d8 (Surr)	102		71 - 118					12/06/14 02:34	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 16:45	1
Lead	2.1	J	10	1.2	ug/L		12/01/14 02:35	12/02/14 16:45	1

Client Sample ID: WG-18036-112414-SG-003

Lab Sample ID: 180-39256-3

Date Collected: 11/24/14 11:00

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 03:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/06/14 03:22	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 03:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 03:22	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/06/14 03:22	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/06/14 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 135					12/06/14 03:22	1
4-Bromofluorobenzene (Surr)	97		62 - 123					12/06/14 03:22	1
Dibromofluoromethane (Surr)	107		64 - 128					12/06/14 03:22	1
Toluene-d8 (Surr)	104		71 - 118					12/06/14 03:22	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 16:50	1
Lead	1.5	J	10	1.2	ug/L		12/01/14 02:35	12/02/14 16:50	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Client Sample ID: WG-18036-112414-SG-004

Lab Sample ID: 180-39256-4

Date Collected: 11/24/14 10:25

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 03:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/06/14 03:46	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 03:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 03:46	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/06/14 03:46	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/06/14 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		58 - 135		12/06/14 03:46	1
4-Bromofluorobenzene (Surr)	96		62 - 123		12/06/14 03:46	1
Dibromofluoromethane (Surr)	105		64 - 128		12/06/14 03:46	1
Toluene-d8 (Surr)	103		71 - 118		12/06/14 03:46	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 17:05	1
Lead	10	U	10	1.2	ug/L		12/01/14 02:35	12/02/14 17:05	1

Client Sample ID: WG-18036-112414-SG-005

Lab Sample ID: 180-39256-5

Date Collected: 11/24/14 11:40

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 04:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/06/14 04:11	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 04:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 04:11	1
Trichloroethene	0.23	J	1.0	0.14	ug/L			12/06/14 04:11	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/06/14 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135		12/06/14 04:11	1
4-Bromofluorobenzene (Surr)	95		62 - 123		12/06/14 04:11	1
Dibromofluoromethane (Surr)	108		64 - 128		12/06/14 04:11	1
Toluene-d8 (Surr)	101		71 - 118		12/06/14 04:11	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 17:11	1
Lead	1.6	J	10	1.2	ug/L		12/01/14 02:35	12/02/14 17:11	1

Client Sample ID: WG-18036-112414-SG-006

Lab Sample ID: 180-39256-6

Date Collected: 11/24/14 11:45

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 04:59	1
cis-1,2-Dichloroethene	0.47	J	1.0	0.24	ug/L			12/06/14 04:59	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 04:59	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Client Sample ID: WG-18036-112414-SG-006

Lab Sample ID: 180-39256-6

Date Collected: 11/24/14 11:45

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 04:59	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/06/14 04:59	1
Vinyl chloride	0.54	J	1.0	0.23	ug/L			12/06/14 04:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		58 - 135					12/06/14 04:59	1
4-Bromofluorobenzene (Surr)	97		62 - 123					12/06/14 04:59	1
Dibromofluoromethane (Surr)	104		64 - 128					12/06/14 04:59	1
Toluene-d8 (Surr)	104		71 - 118					12/06/14 04:59	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 17:16	1
Lead	3.6	J	20	2.4	ug/L		12/01/14 02:35	12/04/14 14:14	2

Client Sample ID: WG-18036-112414-SG-007

Lab Sample ID: 180-39256-7

Date Collected: 11/24/14 13:25

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 05:23	1
cis-1,2-Dichloroethene	1.9		1.0	0.24	ug/L			12/06/14 05:23	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 05:23	1
trans-1,2-Dichloroethene	0.30	J	1.0	0.17	ug/L			12/06/14 05:23	1
Trichloroethene	1.0		1.0	0.14	ug/L			12/06/14 05:23	1
Vinyl chloride	1.1		1.0	0.23	ug/L			12/06/14 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		58 - 135					12/06/14 05:23	1
4-Bromofluorobenzene (Surr)	95		62 - 123					12/06/14 05:23	1
Dibromofluoromethane (Surr)	105		64 - 128					12/06/14 05:23	1
Toluene-d8 (Surr)	98		71 - 118					12/06/14 05:23	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 17:21	1
Lead	1.6	J	10	1.2	ug/L		12/01/14 02:35	12/02/14 17:21	1

Client Sample ID: WG-18036-112414-SG-008

Lab Sample ID: 180-39256-8

Date Collected: 11/24/14 13:00

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 05:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/06/14 05:47	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 05:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 05:47	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/06/14 05:47	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/06/14 05:47	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Client Sample ID: WG-18036-112414-SG-008

Lab Sample ID: 180-39256-8

Date Collected: 11/24/14 13:00

Matrix: Water

Date Received: 11/25/14 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 135		12/06/14 05:47	1
4-Bromofluorobenzene (Surr)	96		62 - 123		12/06/14 05:47	1
Dibromofluoromethane (Surr)	107		64 - 128		12/06/14 05:47	1
Toluene-d8 (Surr)	103		71 - 118		12/06/14 05:47	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 17:41	1
Lead	11	J	20	2.4	ug/L		12/01/14 02:35	12/04/14 14:19	2

Client Sample ID: WG-18036-112414-SG-009

Lab Sample ID: 180-39256-9

Date Collected: 11/24/14 15:05

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 06:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/06/14 06:36	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 06:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 06:36	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/06/14 06:36	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/06/14 06:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		58 - 135		12/06/14 06:36	1
4-Bromofluorobenzene (Surr)	96		62 - 123		12/06/14 06:36	1
Dibromofluoromethane (Surr)	106		64 - 128		12/06/14 06:36	1
Toluene-d8 (Surr)	100		71 - 118		12/06/14 06:36	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 17:47	1
Lead	6.0	J	20	2.4	ug/L		12/01/14 02:35	12/04/14 14:25	2

Client Sample ID: WG-18036-112414-SG-010

Lab Sample ID: 180-39256-10

Date Collected: 11/24/14 14:00

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 07:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/06/14 07:00	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 07:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 07:00	1
Trichloroethene	0.71	J	1.0	0.14	ug/L			12/06/14 07:00	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/06/14 07:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		58 - 135		12/06/14 07:00	1
4-Bromofluorobenzene (Surr)	96		62 - 123		12/06/14 07:00	1
Dibromofluoromethane (Surr)	107		64 - 128		12/06/14 07:00	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Client Sample ID: WG-18036-112414-SG-010

Lab Sample ID: 180-39256-10

Date Collected: 11/24/14 14:00

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 118		12/06/14 07:00	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 17:52	1
Lead	2.6	J	10	1.2	ug/L		12/01/14 02:35	12/02/14 17:52	1

Client Sample ID: WG-18036-112414-SG-011

Lab Sample ID: 180-39256-11

Date Collected: 11/24/14 14:00

Matrix: Water

Date Received: 11/25/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 07:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/06/14 07:24	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 07:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 07:24	1
Trichloroethene	0.66	J	1.0	0.14	ug/L			12/06/14 07:24	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/06/14 07:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		58 - 135		12/06/14 07:24	1
4-Bromofluorobenzene (Surr)	96		62 - 123		12/06/14 07:24	1
Dibromofluoromethane (Surr)	108		64 - 128		12/06/14 07:24	1
Toluene-d8 (Surr)	103		71 - 118		12/06/14 07:24	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 18:07	1
Lead	1.8	J	10	1.2	ug/L		12/01/14 02:35	12/02/14 18:07	1

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-127358/30

Matrix: Water

Analysis Batch: 127358

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/05/14 22:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/05/14 22:32	1
Toluene	1.0	U	1.0	0.15	ug/L			12/05/14 22:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/05/14 22:32	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/05/14 22:32	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/05/14 22:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 135		12/05/14 22:32	1
4-Bromofluorobenzene (Surr)	95		62 - 123		12/05/14 22:32	1
Dibromofluoromethane (Surr)	105		64 - 128		12/05/14 22:32	1
Toluene-d8 (Surr)	101		71 - 118		12/05/14 22:32	1

Lab Sample ID: LCS 180-127358/1005

Matrix: Water

Analysis Batch: 127358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.01		ug/L		90	75 - 125
cis-1,2-Dichloroethene	10.0	9.69		ug/L		97	69 - 127
Toluene	10.0	10.5		ug/L		105	74 - 126
trans-1,2-Dichloroethene	10.0	9.88		ug/L		99	69 - 131
Trichloroethene	10.0	9.30		ug/L		93	73 - 125
Vinyl chloride	10.0	10.6		ug/L		106	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		58 - 135
4-Bromofluorobenzene (Surr)	96		62 - 123
Dibromofluoromethane (Surr)	91		64 - 128
Toluene-d8 (Surr)	105		71 - 118

Lab Sample ID: LCSD 180-127358/11

Matrix: Water

Analysis Batch: 127358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.0	8.96		ug/L		90	75 - 125	1	25
cis-1,2-Dichloroethene	10.0	9.91		ug/L		99	69 - 127	2	20
Toluene	10.0	10.1		ug/L		101	74 - 126	4	25
trans-1,2-Dichloroethene	10.0	9.92		ug/L		99	69 - 131	0	25
Trichloroethene	10.0	9.43		ug/L		94	73 - 125	1	25
Vinyl chloride	10.0	10.4		ug/L		104	30 - 140	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		58 - 135
4-Bromofluorobenzene (Surr)	91		62 - 123
Dibromofluoromethane (Surr)	91		64 - 128

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-127358/11
Matrix: Water
Analysis Batch: 127358

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

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
Toluene-d8 (Surr)	98		71 - 118

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-126786/1-A
Matrix: Water
Analysis Batch: 127025

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 126786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		12/01/14 02:35	12/02/14 16:10	1
Lead	10	U	10	1.2	ug/L		12/01/14 02:35	12/02/14 16:10	1

Lab Sample ID: LCS 180-126786/2-A
Matrix: Water
Analysis Batch: 127025

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 126786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	52.7		ug/L		105	85 - 115
Lead	500	481		ug/L		96	85 - 115

Lab Sample ID: 180-39256-1 MS
Matrix: Water
Analysis Batch: 127025

Client Sample ID: WG-18036-112414-SG-001
Prep Type: Total Recoverable
Prep Batch: 126786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.13	J	50.0	55.2		ug/L		110	70 - 130
Lead	10	U	500	504		ug/L		101	70 - 130

Lab Sample ID: 180-39256-1 MSD
Matrix: Water
Analysis Batch: 127025

Client Sample ID: WG-18036-112414-SG-001
Prep Type: Total Recoverable
Prep Batch: 126786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cadmium	0.13	J	50.0	56.1		ug/L		112	70 - 130	2	20
Lead	10	U	500	510		ug/L		102	70 - 130	1	20

Lab Sample ID: 180-39256-7 MS
Matrix: Water
Analysis Batch: 127025

Client Sample ID: WG-18036-112414-SG-007
Prep Type: Total Recoverable
Prep Batch: 126786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	5.0	U	50.0	54.6		ug/L		109	70 - 130
Lead	1.6	J	500	499		ug/L		100	70 - 130

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-39256-7 MSD
 Matrix: Water
 Analysis Batch: 127025

Client Sample ID: WG-18036-112414-SG-007
 Prep Type: Total Recoverable
 Prep Batch: 126786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	5.0	U	50.0	55.0		ug/L		110	70 - 130	1	20
Lead	1.6	J	500	503		ug/L		100	70 - 130	1	20

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QC Association Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

GC/MS VOA

Analysis Batch: 127358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39256-2	WG-18036-112414-SG-002	Total/NA	Water	624	
180-39256-3	WG-18036-112414-SG-003	Total/NA	Water	624	
180-39256-4	WG-18036-112414-SG-004	Total/NA	Water	624	
180-39256-5	WG-18036-112414-SG-005	Total/NA	Water	624	
180-39256-6	WG-18036-112414-SG-006	Total/NA	Water	624	
180-39256-7	WG-18036-112414-SG-007	Total/NA	Water	624	
180-39256-8	WG-18036-112414-SG-008	Total/NA	Water	624	
180-39256-9	WG-18036-112414-SG-009	Total/NA	Water	624	
180-39256-10	WG-18036-112414-SG-010	Total/NA	Water	624	
180-39256-11	WG-18036-112414-SG-011	Total/NA	Water	624	
MB 180-127358/30	Method Blank	Total/NA	Water	624	
LCS 180-127358/1005	Lab Control Sample	Total/NA	Water	624	
LCSD 180-127358/11	Lab Control Sample Dup	Total/NA	Water	624	

Metals

Prep Batch: 126786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39256-1	WG-18036-112414-SG-001	Total Recoverable	Water	200.7	
180-39256-2	WG-18036-112414-SG-002	Total Recoverable	Water	200.7	
180-39256-3	WG-18036-112414-SG-003	Total Recoverable	Water	200.7	
180-39256-4	WG-18036-112414-SG-004	Total Recoverable	Water	200.7	
180-39256-5	WG-18036-112414-SG-005	Total Recoverable	Water	200.7	
180-39256-6	WG-18036-112414-SG-006	Total Recoverable	Water	200.7	
180-39256-7	WG-18036-112414-SG-007	Total Recoverable	Water	200.7	
180-39256-8	WG-18036-112414-SG-008	Total Recoverable	Water	200.7	
180-39256-9	WG-18036-112414-SG-009	Total Recoverable	Water	200.7	
180-39256-10	WG-18036-112414-SG-010	Total Recoverable	Water	200.7	
180-39256-11	WG-18036-112414-SG-011	Total Recoverable	Water	200.7	
MB 180-126786/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-126786/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
180-39256-1 MS	WG-18036-112414-SG-001	Total Recoverable	Water	200.7	
180-39256-1 MSD	WG-18036-112414-SG-001	Total Recoverable	Water	200.7	
180-39256-7 MS	WG-18036-112414-SG-007	Total Recoverable	Water	200.7	
180-39256-7 MSD	WG-18036-112414-SG-007	Total Recoverable	Water	200.7	

Analysis Batch: 127025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39256-1	WG-18036-112414-SG-001	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-2	WG-18036-112414-SG-002	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-3	WG-18036-112414-SG-003	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-4	WG-18036-112414-SG-004	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-5	WG-18036-112414-SG-005	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-6	WG-18036-112414-SG-006	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-7	WG-18036-112414-SG-007	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-8	WG-18036-112414-SG-008	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-9	WG-18036-112414-SG-009	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-10	WG-18036-112414-SG-010	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-11	WG-18036-112414-SG-011	Total Recoverable	Water	200.7 Rev 4.4	126786
MB 180-126786/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	126786

TestAmerica Pittsburgh

QC Association Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39256-1

Metals (Continued)

Analysis Batch: 127025 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-126786/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-1 MS	WG-18036-112414-SG-001	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-1 MSD	WG-18036-112414-SG-001	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-7 MS	WG-18036-112414-SG-007	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-7 MSD	WG-18036-112414-SG-007	Total Recoverable	Water	200.7 Rev 4.4	126786

Analysis Batch: 127307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39256-6	WG-18036-112414-SG-006	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-8	WG-18036-112414-SG-008	Total Recoverable	Water	200.7 Rev 4.4	126786
180-39256-9	WG-18036-112414-SG-009	Total Recoverable	Water	200.7 Rev 4.4	126786





CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

Address: 2055 Niagara Falls Blvd, Niagara Falls, NY 14304

Phone: 716-297-6150

Fax:

COC NO.: 48207

PAGE 1 OF 9

(See Reverse Side for Instructions)

Project No/Phase/Task Code:
18036 - 2014

Project Name:
Viacom (Buffalo Airport)

Project Location:
Geneese Street

Chemistry Contact:

Sampler(s):
S. Gardner / D. Tyrn

Laboratory Name:
Test America

Lab Contact:
J. Li Colussy

Lab Location:
Pittsborough

Lab Quote No.:

SSOW/ID:

Cooler No.:

Carrier:

Carrier No.:

Date Shipped:
11-24-14

COMMENTS/
SPECIAL INSTRUCTIONS:

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (month/day)	TIME (hr:min)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	CONTAINER QUANTITY & PRESERVATION	ANALYSIS REQUESTED (See Back of COC for Definitions)	MS/MSD Request
1	TB-18036-112414-SG	11-24-14		TB-G	G	X								1			
2	WG-18036-112414-SG-001	11-24-14	1000	WG-G	G	X								4			
3	WG-18036-112414-SG-002	11-24-14	0930	WG-G	G	X								4			
4	WG-18036-112414-SG-003	11-24-14	1100	WG-G	G	X								4			
5	WG-18036-112414-SG-004	11-24-14	1025	WG-G	G	X								4			
6	WG-18036-112414-SG-005	11-24-14	1140	WG-G	G	X								4			
7	WG-18036-112414-SG-006	11-24-14	1145	WG-G	G	X								4			
8	WG-18036-112414-SG-007	11-24-14	1325	WG-G	G	X								4			
9	WG-18036-112414-SG-008	11-24-14	1300	WG-G	G	X								4			
10	WG-18036-112414-SG-009	11-24-14	1505	WG-G	G	X								4			
11	WG-18036-112414-SG-010	11-24-14	1400	WG-G	G	X								4			
12	WG-18036-112414-SG-011	11-24-14	1400	WG-G	G	X								4			
13																	
14																	
15																	



180-39256 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):

1 Day 2 Days 3 Days 1 Week 2 Week Other:

Total Number of Containers: 45

Notes/Special Requirements:

RECEIVED BY	COMPANY	DATE	TIME
<i>Dave Ryan</i>	CRA	11-24-14	
<i>Debbie Watson</i>	AAE	11-25-14	9:40

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew CRA Form: COC-10B (20110804)

Login Sample Receipt Checklist

Client: Leo Brausch Consulting

Job Number: 180-39256-1

Login Number: 39256

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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 containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
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	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-39417-1
Client Project/Site: Buffalo Airport
Revision: 1

For:
Leo Brausch Consulting
131 Wedgewood Drive
Gibsonia, Pennsylvania 15044

Attn: Mr. Leo Brausch



Authorized for release by:
11/8/2016 3:35:35 PM
Jennifer Rumble, Analyst I
jennifer.rumble@testamericainc.com

Designee for
Jill Colussy, Project Manager I
(412)963-2444
jill.colussy@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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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Case Narrative

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

Job ID: 180-39417-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-39417-1 REV1

Note

The client added an analyte to method 624 after the report went out. A revised report (Rev1) was created.

Receipt

The sample was received on 12/3/2014 9:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS VOA

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

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Definitions/Glossary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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)

Certification Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-17
California	State Program	9	2891	03-31-18
Connecticut	State Program	1	PH-0688	09-30-18
Florida	NELAP	4	E871008	06-30-17
Illinois	NELAP	5	200005	06-30-17
Kansas	NELAP	7	E-10350	01-31-17
Louisiana	NELAP	6	04041	06-30-17
New Hampshire	NELAP	1	2030	04-04-17
New Jersey	NELAP	2	PA005	06-30-17
New York	NELAP	2	11182	03-31-17
North Carolina (WW/SW)	State Program	4	434	12-31-16
Pennsylvania	NELAP	3	02-00416	04-30-17
South Carolina	State Program	4	89014	04-30-17
Texas	NELAP	6	T104704528-15-2	03-31-17
US Fish & Wildlife	Federal		LE94312A-1	10-31-17
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-17
Virginia	NELAP	3	460189	09-14-17
West Virginia DEP	State Program	3	142	01-31-17
Wisconsin	State Program	5	998027800	08-31-17

Sample Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-39417-1	WG-18036-120214-KL-001	Water	12/02/14 09:45	12/03/14 09:40

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Method Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

Client Sample ID: WG-18036-120214-KL-001

Lab Sample ID: 180-39417-1

Date Collected: 12/02/14 09:45

Matrix: Water

Date Received: 12/03/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	127443	12/07/14 01:38	DLF	TAL PIT
Instrument ID: CHHP5										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Analysis

DLF = Donald Ferguson

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

Client Sample ID: WG-18036-120214-KL-001

Lab Sample ID: 180-39417-1

Date Collected: 12/02/14 09:45

Matrix: Water

Date Received: 12/03/14 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/07/14 01:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/07/14 01:38	1
Toluene	1.0	U	1.0	0.15	ug/L			12/07/14 01:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/07/14 01:38	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/07/14 01:38	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/07/14 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 135		12/07/14 01:38	1
4-Bromofluorobenzene (Surr)	94		62 - 123		12/07/14 01:38	1
Dibromofluoromethane (Surr)	104		64 - 128		12/07/14 01:38	1
Toluene-d8 (Surr)	102		71 - 118		12/07/14 01:38	1



QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-127443/32

Matrix: Water

Analysis Batch: 127443

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/06/14 23:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/06/14 23:37	1
Toluene	1.0	U	1.0	0.15	ug/L			12/06/14 23:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/06/14 23:37	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/06/14 23:37	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/06/14 23:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 135		12/06/14 23:37	1
4-Bromofluorobenzene (Surr)	93		62 - 123		12/06/14 23:37	1
Dibromofluoromethane (Surr)	106		64 - 128		12/06/14 23:37	1
Toluene-d8 (Surr)	100		71 - 118		12/06/14 23:37	1

Lab Sample ID: LCS 180-127443/1002

Matrix: Water

Analysis Batch: 127443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	75 - 125
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	69 - 127
Toluene	10.0	11.4		ug/L		114	74 - 126
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	69 - 131
Trichloroethene	10.0	10.6		ug/L		106	73 - 125
Vinyl chloride	10.0	11.4		ug/L		114	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		58 - 135
4-Bromofluorobenzene (Surr)	91		62 - 123
Dibromofluoromethane (Surr)	88		64 - 128
Toluene-d8 (Surr)	102		71 - 118

Lab Sample ID: LCSD 180-127443/10

Matrix: Water

Analysis Batch: 127443

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.0	8.85		ug/L		88	75 - 125	19	25
cis-1,2-Dichloroethene	10.0	9.96		ug/L		100	69 - 127	7	20
Toluene	10.0	10.2		ug/L		102	74 - 126	11	25
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	69 - 131	11	25
Trichloroethene	10.0	9.75		ug/L		98	73 - 125	8	25
Vinyl chloride	10.0	9.86		ug/L		99	30 - 140	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		58 - 135
4-Bromofluorobenzene (Surr)	90		62 - 123
Dibromofluoromethane (Surr)	91		64 - 128

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-127443/10
Matrix: Water
Analysis Batch: 127443

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

<i>Surrogate</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
<i>Toluene-d8 (Surr)</i>	99		71 - 118

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QC Association Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-39417-1

GC/MS VOA

Analysis Batch: 127443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39417-1	WG-18036-120214-KL-001	Total/NA	Water	624	
MB 180-127443/32	Method Blank	Total/NA	Water	624	
LCS 180-127443/1002	Lab Control Sample	Total/NA	Water	624	
LCSD 180-127443/10	Lab Control Sample Dup	Total/NA	Water	624	

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CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

Address: 2855 Niagara Falls Blvd, Niagara Falls, NY
 Phone: 716 297-6180 Fax: 716 297 2265

COC NO.: 40784

PAGE 1 OF 1
 (See Reverse Side for Instructions)

Project No./Phase/Task Code: 018036 - 2014		Laboratory Name: Test America		Lab Location: Pittsburgh, PA		SSOW ID: _____											
Project Name: Buffalo Airport Groundwater Sampling Post Closure		Lab Contact: Jill Collussu		Lab Quote No.: _____		Cooler No.: _____											
Project Location: Cheektowake, NY		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: FedEx											
Chemistry Contact: Sve Sevocchi		SAMPLE TYPE		MS/MSD Request		Airbill No.: _____											
Samples(s): Kevin Lynch		Matrix Code		Date Shipped: 12/2/2014		COMMENTS/ SPECIAL INSTRUCTIONS:											
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yyyy)	TIME (hh:mm)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample				
1	WG-18036-120214-KL-801	12/2/14	09:15	WG-C	3	1							4				
2																	
3																	
4																	
5																	
 180-39417 Chain of Custody																	
TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other: _____																	
RECEIVED BY				DATE		COMPANY		TIME		RECEIVED BY		COMPANY		DATE		TIME	
[Signature]				12/2/14		CRA		11:00*		Debbie Watson		TAP		12-3-14		9:40	
Notes/ Special Requirements: Resample - VOCs broken in lab																	

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy *PINK - Shipper GOLDENROD - Sampling Crew
 * Cooler Sealed for shipment to lab



Login Sample Receipt Checklist

Client: Leo Brausch Consulting

Job Number: 180-39417-1

Login Number: 39417

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-42633-1

Client Project/Site: Buffalo Airport

Revision: 1

For:

Leo Brausch Consulting

131 Wedgewood Drive

Gibsonia, Pennsylvania 15044

Attn: Mr. Leo Brausch



Authorized for release by:

11/10/2016 4:10:09 PM

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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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Case Narrative

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Job ID: 180-42633-1

Laboratory: TestAmerica Pittsburgh

Narrative

**Job Narrative
180-42633-1 REV1**

Note

The client added an analyte to method 624 after the report went out. A revised report (Rev1) was created.

Receipt

The samples were received on 4/2/2015 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA

Surrogate recovery for the following samples was outside the upper control limit: WG-18036-040115-SG-001 (180-42633-1), WG-18036-040115-DJT-004 (180-42633-4), WG-18036-040115-SG-005 (180-42633-5), WG-18036-040115-DJT-006 (180-42633-6), WG-18036-040115-SG-009 (180-42633-9) and WG-18036-040115-SG-011 (180-42633-11). As the recoveries were high and the samples were non-detect, all results were reported.

Metals

Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: WG-18036-040115-SG-011 (180-42633-11). The reporting limitis have been adsuted accordingly.



Definitions/Glossary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.

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)

Certification Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-17
California	State Program	9	2891	03-31-18
Connecticut	State Program	1	PH-0688	09-30-18
Florida	NELAP	4	E871008	06-30-17
Illinois	NELAP	5	200005	06-30-17
Kansas	NELAP	7	E-10350	01-31-17
Louisiana	NELAP	6	04041	06-30-17
New Hampshire	NELAP	1	2030	04-04-17
New Jersey	NELAP	2	PA005	06-30-17
New York	NELAP	2	11182	03-31-17
North Carolina (WW/SW)	State Program	4	434	12-31-16
Pennsylvania	NELAP	3	02-00416	04-30-17
South Carolina	State Program	4	89014	04-30-17
Texas	NELAP	6	T104704528-15-2	03-31-17
US Fish & Wildlife	Federal		LE94312A-1	10-31-17
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-17
Virginia	NELAP	3	460189	09-14-17
West Virginia DEP	State Program	3	142	01-31-17
Wisconsin	State Program	5	998027800	08-31-17

Sample Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-42633-1	WG-18036-040115-SG-001	Water	04/01/15 09:20	04/02/15 10:25
180-42633-2	WG-18036-040115-DJT-002	Water	04/01/15 10:00	04/02/15 10:25
180-42633-3	WG-18036-040115-SG-003	Water	04/01/15 10:55	04/02/15 10:25
180-42633-4	WG-18036-040115-DJT-004	Water	04/01/15 10:50	04/02/15 10:25
180-42633-5	WG-18036-040115-SG-005	Water	04/01/15 10:55	04/02/15 10:25
180-42633-6	WG-18036-040115-DJT-006	Water	04/01/15 11:30	04/02/15 10:25
180-42633-7	WG-18036-040115-SG-007	Water	04/01/15 12:25	04/02/15 10:25
180-42633-8	WG-18036-040115-DJT-008	Water	04/01/15 12:10	04/02/15 10:25
180-42633-9	WG-18036-040115-SG-009	Water	04/01/15 13:20	04/02/15 10:25
180-42633-10	WG-18036-040115-DJT-010	Water	04/01/15 13:40	04/02/15 10:25
180-42633-11	WG-18036-040115-SG-011	Water	04/01/15 00:00	04/02/15 10:25
180-42633-12	TB-18036-040115-SG	Water	04/01/15 14:30	04/02/15 10:25

Method Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Client Sample ID: WG-18036-040115-SG-001

Lab Sample ID: 180-42633-1

Date Collected: 04/01/15 09:20

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 17:33	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 16:53	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-040115-DJT-002

Lab Sample ID: 180-42633-2

Date Collected: 04/01/15 10:00

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 17:56	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:08	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-040115-SG-003

Lab Sample ID: 180-42633-3

Date Collected: 04/01/15 10:55

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 18:20	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:12	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-040115-DJT-004

Lab Sample ID: 180-42633-4

Date Collected: 04/01/15 10:50

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 18:44	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:16	RJG	TAL PIT
Instrument ID: Q										

TestAmerica Pittsburgh

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Client Sample ID: WG-18036-040115-SG-005

Lab Sample ID: 180-42633-5

Date Collected: 04/01/15 10:55

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 19:32	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:19	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-040115-DJT-006

Lab Sample ID: 180-42633-6

Date Collected: 04/01/15 11:30

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 19:56	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:31	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-040115-SG-007

Lab Sample ID: 180-42633-7

Date Collected: 04/01/15 12:25

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 20:20	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:34	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-040115-DJT-008

Lab Sample ID: 180-42633-8

Date Collected: 04/01/15 12:10

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137734	04/08/15 00:43	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:38	RJG	TAL PIT
Instrument ID: Q										

TestAmerica Pittsburgh

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Client Sample ID: WG-18036-040115-SG-009

Lab Sample ID: 180-42633-9

Date Collected: 04/01/15 13:20

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 21:32	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:42	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-040115-DJT-010

Lab Sample ID: 180-42633-10

Date Collected: 04/01/15 13:40

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 21:55	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:46	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-040115-SG-011

Lab Sample ID: 180-42633-11

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137608	04/06/15 22:19	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			138104	04/09/15 13:40	RJG	TAL PIT
Instrument ID: C										
Total Recoverable	Prep	200.7			50 mL	50 mL	137704	04/07/15 08:24	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			137967	04/08/15 17:50	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: TB-18036-040115-SG

Lab Sample ID: 180-42633-12

Date Collected: 04/01/15 14:30

Matrix: Water

Date Received: 04/02/15 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	137734	04/08/15 01:07	DLF	TAL PIT
Instrument ID: CHHP5										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

AB1 = Ashwin Baikadi

Batch Type: Analysis

DLF = Donald Ferguson

RJG = Rob Good

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Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Client Sample ID: WG-18036-040115-SG-001

Lab Sample ID: 180-42633-1

Date Collected: 04/01/15 09:20

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 17:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 17:33	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 17:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 17:33	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 17:33	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	137	X	58 - 135		04/06/15 17:33	1
4-Bromofluorobenzene (Surr)	93		62 - 123		04/06/15 17:33	1
Dibromofluoromethane (Surr)	124		64 - 128		04/06/15 17:33	1
Toluene-d8 (Surr)	115		71 - 118		04/06/15 17:33	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.23	J	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 16:53	1
Lead	1.5	J B	10	1.2	ug/L		04/07/15 08:24	04/08/15 16:53	1

Client Sample ID: WG-18036-040115-DJT-002

Lab Sample ID: 180-42633-2

Date Collected: 04/01/15 10:00

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 17:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 17:56	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 17:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 17:56	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 17:56	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132		58 - 135		04/06/15 17:56	1
4-Bromofluorobenzene (Surr)	96		62 - 123		04/06/15 17:56	1
Dibromofluoromethane (Surr)	118		64 - 128		04/06/15 17:56	1
Toluene-d8 (Surr)	103		71 - 118		04/06/15 17:56	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:08	1
Lead	2.1	J B	10	1.2	ug/L		04/07/15 08:24	04/08/15 17:08	1

Client Sample ID: WG-18036-040115-SG-003

Lab Sample ID: 180-42633-3

Date Collected: 04/01/15 10:55

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 18:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 18:20	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 18:20	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Client Sample ID: WG-18036-040115-SG-003

Lab Sample ID: 180-42633-3

Date Collected: 04/01/15 10:55

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 18:20	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 18:20	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	135		58 - 135					04/06/15 18:20	1
4-Bromofluorobenzene (Surr)	95		62 - 123					04/06/15 18:20	1
Dibromofluoromethane (Surr)	122		64 - 128					04/06/15 18:20	1
Toluene-d8 (Surr)	104		71 - 118					04/06/15 18:20	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:12	1
Lead	3.9	J B	10	1.2	ug/L		04/07/15 08:24	04/08/15 17:12	1

Client Sample ID: WG-18036-040115-DJT-004

Lab Sample ID: 180-42633-4

Date Collected: 04/01/15 10:50

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 18:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 18:44	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 18:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 18:44	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 18:44	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	137	X	58 - 135					04/06/15 18:44	1
4-Bromofluorobenzene (Surr)	93		62 - 123					04/06/15 18:44	1
Dibromofluoromethane (Surr)	120		64 - 128					04/06/15 18:44	1
Toluene-d8 (Surr)	104		71 - 118					04/06/15 18:44	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:16	1
Lead	10	U	10	1.2	ug/L		04/07/15 08:24	04/08/15 17:16	1

Client Sample ID: WG-18036-040115-SG-005

Lab Sample ID: 180-42633-5

Date Collected: 04/01/15 10:55

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 19:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 19:32	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 19:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 19:32	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 19:32	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 19:32	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Client Sample ID: WG-18036-040115-SG-005

Lab Sample ID: 180-42633-5

Date Collected: 04/01/15 10:55

Matrix: Water

Date Received: 04/02/15 10:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	141	X	58 - 135		04/06/15 19:32	1
4-Bromofluorobenzene (Surr)	98		62 - 123		04/06/15 19:32	1
Dibromofluoromethane (Surr)	121		64 - 128		04/06/15 19:32	1
Toluene-d8 (Surr)	117		71 - 118		04/06/15 19:32	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:19	1
Lead	4.3	J B	10	1.2	ug/L		04/07/15 08:24	04/08/15 17:19	1

Client Sample ID: WG-18036-040115-DJT-006

Lab Sample ID: 180-42633-6

Date Collected: 04/01/15 11:30

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 19:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 19:56	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 19:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 19:56	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 19:56	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	137	X	58 - 135		04/06/15 19:56	1
4-Bromofluorobenzene (Surr)	98		62 - 123		04/06/15 19:56	1
Dibromofluoromethane (Surr)	120		64 - 128		04/06/15 19:56	1
Toluene-d8 (Surr)	107		71 - 118		04/06/15 19:56	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:31	1
Lead	10	U	10	1.2	ug/L		04/07/15 08:24	04/08/15 17:31	1

Client Sample ID: WG-18036-040115-SG-007

Lab Sample ID: 180-42633-7

Date Collected: 04/01/15 12:25

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 20:20	1
cis-1,2-Dichloroethene	0.32	J	1.0	0.24	ug/L			04/06/15 20:20	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 20:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 20:20	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 20:20	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131		58 - 135		04/06/15 20:20	1
4-Bromofluorobenzene (Surr)	97		62 - 123		04/06/15 20:20	1
Dibromofluoromethane (Surr)	114		64 - 128		04/06/15 20:20	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Client Sample ID: WG-18036-040115-SG-007

Lab Sample ID: 180-42633-7

Date Collected: 04/01/15 12:25

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		71 - 118		04/06/15 20:20	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.52	J	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:34	1
Lead	10	U	10	1.2	ug/L		04/07/15 08:24	04/08/15 17:34	1

Client Sample ID: WG-18036-040115-DJT-008

Lab Sample ID: 180-42633-8

Date Collected: 04/01/15 12:10

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/08/15 00:43	1
cis-1,2-Dichloroethene	5.2		1.0	0.24	ug/L			04/08/15 00:43	1
Toluene	1.0	U	1.0	0.15	ug/L			04/08/15 00:43	1
trans-1,2-Dichloroethene	0.55	J	1.0	0.17	ug/L			04/08/15 00:43	1
Trichloroethene	0.66	J	1.0	0.14	ug/L			04/08/15 00:43	1
Vinyl chloride	6.0		1.0	0.23	ug/L			04/08/15 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		58 - 135		04/08/15 00:43	1
4-Bromofluorobenzene (Surr)	93		62 - 123		04/08/15 00:43	1
Dibromofluoromethane (Surr)	116		64 - 128		04/08/15 00:43	1
Toluene-d8 (Surr)	101		71 - 118		04/08/15 00:43	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.17	J	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:38	1
Lead	10	U	10	1.2	ug/L		04/07/15 08:24	04/08/15 17:38	1

Client Sample ID: WG-18036-040115-SG-009

Lab Sample ID: 180-42633-9

Date Collected: 04/01/15 13:20

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 21:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 21:32	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 21:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 21:32	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 21:32	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	139	X	58 - 135		04/06/15 21:32	1
4-Bromofluorobenzene (Surr)	98		62 - 123		04/06/15 21:32	1
Dibromofluoromethane (Surr)	119		64 - 128		04/06/15 21:32	1
Toluene-d8 (Surr)	117		71 - 118		04/06/15 21:32	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Client Sample ID: WG-18036-040115-SG-009

Lab Sample ID: 180-42633-9

Date Collected: 04/01/15 13:20

Matrix: Water

Date Received: 04/02/15 10:25

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.55	J	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:42	1
Lead	17	B	10	1.2	ug/L		04/07/15 08:24	04/08/15 17:42	1

Client Sample ID: WG-18036-040115-DJT-010

Lab Sample ID: 180-42633-10

Date Collected: 04/01/15 13:40

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 21:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 21:55	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 21:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 21:55	1
Trichloroethene	0.88	J	1.0	0.14	ug/L			04/06/15 21:55	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 21:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131		58 - 135					04/06/15 21:55	1
4-Bromofluorobenzene (Surr)	99		62 - 123					04/06/15 21:55	1
Dibromofluoromethane (Surr)	115		64 - 128					04/06/15 21:55	1
Toluene-d8 (Surr)	114		71 - 118					04/06/15 21:55	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.21	J	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:46	1
Lead	10	U	10	1.2	ug/L		04/07/15 08:24	04/08/15 17:46	1

Client Sample ID: WG-18036-040115-SG-011

Lab Sample ID: 180-42633-11

Date Collected: 04/01/15 00:00

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 22:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 22:19	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 22:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 22:19	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 22:19	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 22:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	138	X	58 - 135					04/06/15 22:19	1
4-Bromofluorobenzene (Surr)	97		62 - 123					04/06/15 22:19	1
Dibromofluoromethane (Surr)	117		64 - 128					04/06/15 22:19	1
Toluene-d8 (Surr)	111		71 - 118					04/06/15 22:19	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.43	J	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 17:50	1
Lead	4.5	J B	20	2.4	ug/L		04/07/15 08:24	04/09/15 13:40	2

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Client Sample ID: TB-18036-040115-SG

Lab Sample ID: 180-42633-12

Date Collected: 04/01/15 14:30

Matrix: Water

Date Received: 04/02/15 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/08/15 01:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/08/15 01:07	1
Toluene	1.0	U	1.0	0.15	ug/L			04/08/15 01:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/08/15 01:07	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/08/15 01:07	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/08/15 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		58 - 135		04/08/15 01:07	1
4-Bromofluorobenzene (Surr)	96		62 - 123		04/08/15 01:07	1
Dibromofluoromethane (Surr)	110		64 - 128		04/08/15 01:07	1
Toluene-d8 (Surr)	103		71 - 118		04/08/15 01:07	1



QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-137608/4
Matrix: Water
Analysis Batch: 137608

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/06/15 11:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/06/15 11:59	1
Toluene	1.0	U	1.0	0.15	ug/L			04/06/15 11:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/06/15 11:59	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/06/15 11:59	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/06/15 11:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		58 - 135		04/06/15 11:59	1
4-Bromofluorobenzene (Surr)	101		62 - 123		04/06/15 11:59	1
Dibromofluoromethane (Surr)	111		64 - 128		04/06/15 11:59	1
Toluene-d8 (Surr)	108		71 - 118		04/06/15 11:59	1

Lab Sample ID: LCS 180-137608/1002
Matrix: Water
Analysis Batch: 137608

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.53		ug/L		95	75 - 125
cis-1,2-Dichloroethene	10.0	8.50		ug/L		85	69 - 127
Toluene	10.0	11.4		ug/L		114	74 - 126
trans-1,2-Dichloroethene	10.0	8.68		ug/L		87	69 - 131
Trichloroethene	10.0	9.18		ug/L		92	73 - 125
Vinyl chloride	10.0	7.96		ug/L		80	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	122		58 - 135
4-Bromofluorobenzene (Surr)	100		62 - 123
Dibromofluoromethane (Surr)	108		64 - 128
Toluene-d8 (Surr)	108		71 - 118

Lab Sample ID: 180-42633-11 MS
Matrix: Water
Analysis Batch: 137608

Client Sample ID: WG-18036-040115-SG-011
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	8.56		ug/L		86	75 - 125
cis-1,2-Dichloroethene	1.0	U	10.0	7.94		ug/L		79	69 - 127
Toluene	1.0	U	10.0	10.2		ug/L		102	74 - 126
trans-1,2-Dichloroethene	1.0	U	10.0	7.52		ug/L		75	69 - 131
Trichloroethene	1.0	U	10.0	8.91		ug/L		89	73 - 125
Vinyl chloride	1.0	U	10.0	7.29		ug/L		73	30 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		58 - 135
4-Bromofluorobenzene (Surr)	92		62 - 123
Dibromofluoromethane (Surr)	98		64 - 128

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-42633-11 MS
Matrix: Water
Analysis Batch: 137608

Client Sample ID: WG-18036-040115-SG-011
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	96		71 - 118

Lab Sample ID: 180-42633-11 MSD
Matrix: Water
Analysis Batch: 137608

Client Sample ID: WG-18036-040115-SG-011
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	10.0	8.76		ug/L		88	75 - 125	2	25
cis-1,2-Dichloroethene	1.0	U	10.0	8.44		ug/L		84	69 - 127	6	20
Toluene	1.0	U	10.0	10.6		ug/L		106	74 - 126	3	25
trans-1,2-Dichloroethene	1.0	U	10.0	7.56		ug/L		76	69 - 131	1	25
Trichloroethene	1.0	U	10.0	8.95		ug/L		89	73 - 125	0	25
Vinyl chloride	1.0	U	10.0	8.47		ug/L		85	30 - 140	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		58 - 135
4-Bromofluorobenzene (Surr)	93		62 - 123
Dibromofluoromethane (Surr)	103		64 - 128
Toluene-d8 (Surr)	99		71 - 118

Lab Sample ID: MB 180-137734/33
Matrix: Water
Analysis Batch: 137734

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/08/15 00:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/08/15 00:19	1
Toluene	1.0	U	1.0	0.15	ug/L			04/08/15 00:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/08/15 00:19	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/08/15 00:19	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/08/15 00:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		58 - 135		04/08/15 00:19	1
4-Bromofluorobenzene (Surr)	92		62 - 123		04/08/15 00:19	1
Dibromofluoromethane (Surr)	112		64 - 128		04/08/15 00:19	1
Toluene-d8 (Surr)	100		71 - 118		04/08/15 00:19	1

Lab Sample ID: LCS 180-137734/1002
Matrix: Water
Analysis Batch: 137734

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	11.8		ug/L		118	75 - 125
cis-1,2-Dichloroethene	10.0	9.74		ug/L		97	69 - 127
Toluene	10.0	10.9		ug/L		109	74 - 126
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	69 - 131

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-137734/1002
Matrix: Water
Analysis Batch: 137734

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	10.0	9.76		ug/L		98	73 - 125
Vinyl chloride	10.0	12.7		ug/L		127	30 - 140
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	104		58 - 135				
4-Bromofluorobenzene (Surr)	95		62 - 123				
Dibromofluoromethane (Surr)	94		64 - 128				
Toluene-d8 (Surr)	102		71 - 118				

Lab Sample ID: 180-42657-F-6 MS
Matrix: Water
Analysis Batch: 137734

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	3.0	U	30.0	31.4		ug/L		105	75 - 125
cis-1,2-Dichloroethene	29	F1	30.0	46.3	F1	ug/L		59	69 - 127
Toluene	3.0	U	30.0	31.2		ug/L		104	74 - 126
trans-1,2-Dichloroethene	3.0	U	30.0	25.4		ug/L		85	69 - 131
Trichloroethene	66	F1	30.0	71.0	F1	ug/L		16	73 - 125
Vinyl chloride	2.6	J	30.0	35.8		ug/L		111	30 - 140
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		58 - 135						
4-Bromofluorobenzene (Surr)	91		62 - 123						
Dibromofluoromethane (Surr)	88		64 - 128						
Toluene-d8 (Surr)	93		71 - 118						

Lab Sample ID: 180-42657-F-6 MSD
Matrix: Water
Analysis Batch: 137734

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	3.0	U	30.0	29.1		ug/L		97	75 - 125	7	25
cis-1,2-Dichloroethene	29	F1	30.0	47.5	F1	ug/L		63	69 - 127	3	20
Toluene	3.0	U	30.0	29.8		ug/L		99	74 - 126	4	25
trans-1,2-Dichloroethene	3.0	U	30.0	24.8		ug/L		83	69 - 131	2	25
Trichloroethene	66	F1	30.0	73.3	F1	ug/L		23	73 - 125	3	25
Vinyl chloride	2.6	J	30.0	36.0		ug/L		111	30 - 140	0	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	85		58 - 135								
4-Bromofluorobenzene (Surr)	93		62 - 123								
Dibromofluoromethane (Surr)	80		64 - 128								
Toluene-d8 (Surr)	89		71 - 118								

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-137704/1-A
Matrix: Water
Analysis Batch: 137967

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 137704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		04/07/15 08:24	04/08/15 16:46	1
Lead	1.57	J	10	1.2	ug/L		04/07/15 08:24	04/08/15 16:46	1

Lab Sample ID: LCS 180-137704/2-A
Matrix: Water
Analysis Batch: 137967

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 137704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	57.5		ug/L		115	85 - 115
Lead	500	514		ug/L		103	85 - 115

Lab Sample ID: 180-42633-1 MS
Matrix: Water
Analysis Batch: 137967

Client Sample ID: WG-18036-040115-SG-001
Prep Type: Total Recoverable
Prep Batch: 137704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.23	J	50.0	57.5		ug/L		115	70 - 130
Lead	1.5	J B	500	508		ug/L		101	70 - 130

Lab Sample ID: 180-42633-1 MSD
Matrix: Water
Analysis Batch: 137967

Client Sample ID: WG-18036-040115-SG-001
Prep Type: Total Recoverable
Prep Batch: 137704

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.23	J	50.0	56.6		ug/L		113	70 - 130	2	20
Lead	1.5	J B	500	500		ug/L		100	70 - 130	2	20

Lab Sample ID: 180-42633-11 MS
Matrix: Water
Analysis Batch: 137967

Client Sample ID: WG-18036-040115-SG-011
Prep Type: Total Recoverable
Prep Batch: 137704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.43	J	50.0	59.0		ug/L		117	70 - 130

Lab Sample ID: 180-42633-11 MS
Matrix: Water
Analysis Batch: 138104

Client Sample ID: WG-18036-040115-SG-011
Prep Type: Total Recoverable
Prep Batch: 137704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	4.5	J B	500	503		ug/L		100	70 - 130

Lab Sample ID: 180-42633-11 MSD
Matrix: Water
Analysis Batch: 137967

Client Sample ID: WG-18036-040115-SG-011
Prep Type: Total Recoverable
Prep Batch: 137704

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.43	J	50.0	60.2		ug/L		120	70 - 130	2	20

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-42633-11 MSD
Matrix: Water
Analysis Batch: 138104

Client Sample ID: WG-18036-040115-SG-011
Prep Type: Total Recoverable
Prep Batch: 137704

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	4.5	J B	500	504		ug/L		100	70 - 130	0	20

- 1
- 2
- 3
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- 5
- 6
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- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

GC/MS VOA

Analysis Batch: 137608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-42633-1	WG-18036-040115-SG-001	Total/NA	Water	624	
180-42633-2	WG-18036-040115-DJT-002	Total/NA	Water	624	
180-42633-3	WG-18036-040115-SG-003	Total/NA	Water	624	
180-42633-4	WG-18036-040115-DJT-004	Total/NA	Water	624	
180-42633-5	WG-18036-040115-SG-005	Total/NA	Water	624	
180-42633-6	WG-18036-040115-DJT-006	Total/NA	Water	624	
180-42633-7	WG-18036-040115-SG-007	Total/NA	Water	624	
180-42633-9	WG-18036-040115-SG-009	Total/NA	Water	624	
180-42633-10	WG-18036-040115-DJT-010	Total/NA	Water	624	
180-42633-11	WG-18036-040115-SG-011	Total/NA	Water	624	
MB 180-137608/4	Method Blank	Total/NA	Water	624	
LCS 180-137608/1002	Lab Control Sample	Total/NA	Water	624	
180-42633-11 MS	WG-18036-040115-SG-011	Total/NA	Water	624	
180-42633-11 MSD	WG-18036-040115-SG-011	Total/NA	Water	624	

Analysis Batch: 137734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-42633-8	WG-18036-040115-DJT-008	Total/NA	Water	624	
180-42633-12	TB-18036-040115-SG	Total/NA	Water	624	
MB 180-137734/33	Method Blank	Total/NA	Water	624	
LCS 180-137734/1002	Lab Control Sample	Total/NA	Water	624	
180-42657-F-6 MS	Matrix Spike	Total/NA	Water	624	
180-42657-F-6 MSD	Matrix Spike Duplicate	Total/NA	Water	624	

Metals

Prep Batch: 137704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-42633-1	WG-18036-040115-SG-001	Total Recoverable	Water	200.7	
180-42633-2	WG-18036-040115-DJT-002	Total Recoverable	Water	200.7	
180-42633-3	WG-18036-040115-SG-003	Total Recoverable	Water	200.7	
180-42633-4	WG-18036-040115-DJT-004	Total Recoverable	Water	200.7	
180-42633-5	WG-18036-040115-SG-005	Total Recoverable	Water	200.7	
180-42633-6	WG-18036-040115-DJT-006	Total Recoverable	Water	200.7	
180-42633-7	WG-18036-040115-SG-007	Total Recoverable	Water	200.7	
180-42633-8	WG-18036-040115-DJT-008	Total Recoverable	Water	200.7	
180-42633-9	WG-18036-040115-SG-009	Total Recoverable	Water	200.7	
180-42633-10	WG-18036-040115-DJT-010	Total Recoverable	Water	200.7	
180-42633-11	WG-18036-040115-SG-011	Total Recoverable	Water	200.7	
MB 180-137704/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-137704/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
180-42633-1 MS	WG-18036-040115-SG-001	Total Recoverable	Water	200.7	
180-42633-1 MSD	WG-18036-040115-SG-001	Total Recoverable	Water	200.7	
180-42633-11 MS	WG-18036-040115-SG-011	Total Recoverable	Water	200.7	
180-42633-11 MSD	WG-18036-040115-SG-011	Total Recoverable	Water	200.7	

Analysis Batch: 137967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-42633-1	WG-18036-040115-SG-001	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-2	WG-18036-040115-DJT-002	Total Recoverable	Water	200.7 Rev 4.4	137704

TestAmerica Pittsburgh

QC Association Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-42633-1

Metals (Continued)

Analysis Batch: 137967 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-42633-3	WG-18036-040115-SG-003	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-4	WG-18036-040115-DJT-004	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-5	WG-18036-040115-SG-005	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-6	WG-18036-040115-DJT-006	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-7	WG-18036-040115-SG-007	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-8	WG-18036-040115-DJT-008	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-9	WG-18036-040115-SG-009	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-10	WG-18036-040115-DJT-010	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-11	WG-18036-040115-SG-011	Total Recoverable	Water	200.7 Rev 4.4	137704
MB 180-137704/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	137704
LCS 180-137704/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-1 MS	WG-18036-040115-SG-001	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-1 MSD	WG-18036-040115-SG-001	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-11 MS	WG-18036-040115-SG-011	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-11 MSD	WG-18036-040115-SG-011	Total Recoverable	Water	200.7 Rev 4.4	137704

Analysis Batch: 138104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-42633-11	WG-18036-040115-SG-011	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-11 MS	WG-18036-040115-SG-011	Total Recoverable	Water	200.7 Rev 4.4	137704
180-42633-11 MSD	WG-18036-040115-SG-011	Total Recoverable	Water	200.7 Rev 4.4	137704



CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

Address: **CRA 2055 Niagara Falls Blvd NY 14304**

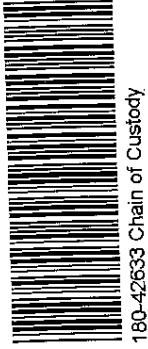
COC NO.: **48216**

PAGE **1** OF **1**

Phone: **716-297-6150** Fax: _____

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 18036-2014		Laboratory Name: Test America		Lab Location: Pittsburgh		SSOW ID:												
Project Name: Viacom (Buffalo Airport)		Lab Contact: Jill Colussy		Lab Quote No:		Cooler No:												
Project Location: Buffalo Airport		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier:												
Chemistry Contact: S. Gardner / D. Tyrn		SAMPLE TYPE		PRESERVATION		Airbill No:												
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (g) or Comp (c)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil)	VOC	Encores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:	
1	WG-18036-040115-SG-001	4-1-15	0920	WG G	G		X	X				X			4			
2	WG-18036-040115-DJT-002	4-1-15	1000	WG G	G		X	X				X			4			
3	WG-18036-040115-SG-003	4-1-15	1055	WG G	G		X	X				X			4			
4	WG-18036-040115-DJT-004	4-1-15	1050	WG G	G		X	X				X			4			
5	WG-18036-040115-SG-005	4-1-15	1055	WG G	G		X	X				X			4			
6	WG-18036-040115-DJT-006	4-1-15	1130	WG G	G		X	X				X			4			
7	WG-18036-040115-SG-007	4-1-15	1225	WG G	G		X	X				X			4			
8	WG-18036-040115-DJT-008	4-1-15	1210	WG G	G		X	X				X			4			
9	WG-18036-040115-SG-009	4-1-15	1320	WG G	G		X	X				X			4			
10	WG-18036-040115-DJT-010	4-1-15	1340	WG G	G		X	X				X			4			
11	WG-18036-040115-SG-011	4-1-15		WG G	G		X	X				X			12			
12	TB-18036-040115-SG	4-1-15	1430	TB G	G		X					X			2			
13																		
14																		
15																		



180-42633 Chain of Custody

Total Number of Containers: **54**

All Samples in Cooler must be on COC

TAT Required in business days (use separate COCs for different TATs):

1 Day 2 Days 3 Days 1 Week 2 Week Other:

RELINQUISHED BY	DATE	RECEIVED BY	DATE	COMPANY	DATE	TIME
Dave Tyrn	4-1-15	J. Gardner	4-1-15	CRA	1600	
				FARGA	4/2/15	1025

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew CRA Form: COC-10B (20110804)



ORIGIN ID:DKKA (716) 287-2160
BRITT GEBHARDT
CRA SERVICES

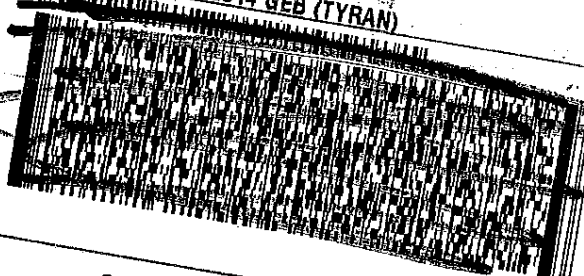
2055 NIAGARA FALLS BLVD
NIAGARA FALLS, NY 14304
UNITED STATES US

SHIP DATE: 01APR15
ACTWGT: 36.0 LB MAN
CAD: 89417/CAFE2807

BILL THIRD PARTY

TO **SAMPLE CUSTODIAN**
TEST AMERICA
301 ALPHA DRIVE

PITTSBURGH PA 152381330
(412) 983-7068
REF: 018036 - 2014 GEB (TYRAN)



3 of 3
MPS# 0263 **5849 9434 3716**
Matr# 5849 9434 3690

THU - 02 APR 10:30A
PRIORITY OVERNIGHT

XH AGCA

0201

15238
PA-US **PIT**

Uncorrected temp Thermometer ID

CF	<u>AD</u>	Initials	<u>out</u>	<u>1.6</u>	°C
				<u>1.0</u>	

PT-WI-SR-001 effective 7/26/13

Per # 154254-364 PIT2 01/15



180-42633 Waybill

Login Sample Receipt Checklist

Client: Leo Brausch Consulting

Job Number: 180-42633-1

Login Number: 42633

List Number: 1

Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-45236-1

Client Project/Site: Buffalo Airport

Revision: 1

For:

Leo Brausch Consulting

131 Wedgewood Drive

Gibsonia, Pennsylvania 15044

Attn: Mr. Leo Brausch



Authorized for release by:

11/10/2016 4:16:29 PM

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

LINKS

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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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Case Narrative

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Job ID: 180-45236-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-45236-1 REV1

Note

The client added an analyte to method 624 after the report went out. A revised report (Rev1) was created.

Receipt

The samples were received on 6/19/2015 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

The chain of custody did not list a sampling time for sample TB-18036-061815-DJT. The earliest sample time was logged in for this sample.

GC/MS VOA

Internal standard (ISTD) response for TBA d9 for the following sample was outside acceptance criteria: WG-18036-061815-SG-009 (180-45236-10). This ISTD does not correspond to any of the requested target compounds; therefore, the results have been reported.

Metals

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

Definitions/Glossary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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)

Certification Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-17
California	State Program	9	2891	03-31-18
Connecticut	State Program	1	PH-0688	09-30-18
Florida	NELAP	4	E871008	06-30-17
Illinois	NELAP	5	200005	06-30-17
Kansas	NELAP	7	E-10350	01-31-17
Louisiana	NELAP	6	04041	06-30-17
New Hampshire	NELAP	1	2030	04-04-17
New Jersey	NELAP	2	PA005	06-30-17
New York	NELAP	2	11182	03-31-17
North Carolina (WW/SW)	State Program	4	434	12-31-16
Pennsylvania	NELAP	3	02-00416	04-30-17
South Carolina	State Program	4	89014	04-30-17
Texas	NELAP	6	T104704528-15-2	03-31-17
US Fish & Wildlife	Federal		LE94312A-1	10-31-17
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-17
Virginia	NELAP	3	460189	09-14-17
West Virginia DEP	State Program	3	142	01-31-17
Wisconsin	State Program	5	998027800	08-31-17

Sample Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-45236-1	TB-18036-061815-DJT	Water	06/18/15 09:20	06/19/15 09:15
180-45236-2	WG-18036-061815-DJT-001	Water	06/18/15 09:40	06/19/15 09:15
180-45236-3	WG-18036-061815-SG-002	Water	06/18/15 09:20	06/19/15 09:15
180-45236-4	WG-18036-061815-DJT-003	Water	06/18/15 10:30	06/19/15 09:15
180-45236-5	WG-18036-061815-SG-004	Water	06/18/15 10:10	06/19/15 09:15
180-45236-6	WG-18036-061815-DJT-005	Water	06/18/15 11:30	06/19/15 09:15
180-45236-7	WG-18036-061815-SG-006	Water	06/18/15 10:10	06/19/15 09:15
180-45236-8	WG-18036-061815-DJT-007	Water	06/18/15 12:30	06/19/15 09:15
180-45236-9	WG-18036-061815-SG-008	Water	06/18/15 11:30	06/19/15 09:15
180-45236-10	WG-18036-061815-SG-009	Water	06/18/15 13:40	06/19/15 09:15
180-45236-11	WG-18036-061815-SG-010	Water	06/18/15 12:20	06/19/15 09:15
180-45236-12	WG-18036-061815-SG-011	Water	06/18/15 14:35	06/19/15 09:15

Method Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Client Sample ID: TB-18036-061815-DJT

Lab Sample ID: 180-45236-1

Date Collected: 06/18/15 09:20

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 12:18	PJJ	TAL PIT
Instrument ID: CHHP7										

Client Sample ID: WG-18036-061815-DJT-001

Lab Sample ID: 180-45236-2

Date Collected: 06/18/15 09:40

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 11:51	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 18:27	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-SG-002

Lab Sample ID: 180-45236-3

Date Collected: 06/18/15 09:20

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 15:23	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 18:57	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-DJT-003

Lab Sample ID: 180-45236-4

Date Collected: 06/18/15 10:30

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 15:51	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 19:02	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-SG-004

Lab Sample ID: 180-45236-5

Date Collected: 06/18/15 10:10

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 16:18	PJJ	TAL PIT
Instrument ID: CHHP7										

TestAmerica Pittsburgh

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Client Sample ID: WG-18036-061815-SG-004

Lab Sample ID: 180-45236-5

Date Collected: 06/18/15 10:10

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 19:07	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-DJT-005

Lab Sample ID: 180-45236-6

Date Collected: 06/18/15 11:30

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 16:46	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 19:12	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-SG-006

Lab Sample ID: 180-45236-7

Date Collected: 06/18/15 10:10

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 17:13	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 19:18	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-DJT-007

Lab Sample ID: 180-45236-8

Date Collected: 06/18/15 12:30

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 17:40	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 19:23	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-SG-008

Lab Sample ID: 180-45236-9

Date Collected: 06/18/15 11:30

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 18:08	PJJ	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Client Sample ID: WG-18036-061815-SG-008

Lab Sample ID: 180-45236-9

Date Collected: 06/18/15 11:30

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 18:08	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 19:28	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-SG-009

Lab Sample ID: 180-45236-10

Date Collected: 06/18/15 13:40

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145812	06/23/15 18:36	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 19:33	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-SG-010

Lab Sample ID: 180-45236-11

Date Collected: 06/18/15 12:20

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145957	06/24/15 14:47	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 19:39	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-061815-SG-011

Lab Sample ID: 180-45236-12

Date Collected: 06/18/15 14:35

Matrix: Water

Date Received: 06/19/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	20 mL	20 mL	145957	06/24/15 15:15	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	145822	06/23/15 08:43	AB1	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			146277	06/26/15 20:09	RJG	TAL PIT
Instrument ID: C										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

AB1 = Ashwin Baikadi

Batch Type: Analysis

PJJ = Patrick Journet

RJG = Rob Good

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Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Client Sample ID: TB-18036-061815-DJT

Lab Sample ID: 180-45236-1

Date Collected: 06/18/15 09:20

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 12:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 12:18	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 12:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 12:18	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 12:18	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		58 - 135		06/23/15 12:18	1
4-Bromofluorobenzene (Surr)	77		62 - 123		06/23/15 12:18	1
Dibromofluoromethane (Surr)	92		64 - 128		06/23/15 12:18	1
Toluene-d8 (Surr)	97		71 - 118		06/23/15 12:18	1

Client Sample ID: WG-18036-061815-DJT-001

Lab Sample ID: 180-45236-2

Date Collected: 06/18/15 09:40

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 11:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 11:51	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 11:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 11:51	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 11:51	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		58 - 135		06/23/15 11:51	1
4-Bromofluorobenzene (Surr)	74		62 - 123		06/23/15 11:51	1
Dibromofluoromethane (Surr)	90		64 - 128		06/23/15 11:51	1
Toluene-d8 (Surr)	96		71 - 118		06/23/15 11:51	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 18:27	1
Lead	10	U	10	1.2	ug/L		06/23/15 08:43	06/26/15 18:27	1

Client Sample ID: WG-18036-061815-SG-002

Lab Sample ID: 180-45236-3

Date Collected: 06/18/15 09:20

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 15:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 15:23	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 15:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 15:23	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 15:23	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 15:23	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Client Sample ID: WG-18036-061815-SG-002

Lab Sample ID: 180-45236-3

Date Collected: 06/18/15 09:20

Matrix: Water

Date Received: 06/19/15 09:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		58 - 135		06/23/15 15:23	1
4-Bromofluorobenzene (Surr)	94		62 - 123		06/23/15 15:23	1
Dibromofluoromethane (Surr)	111		64 - 128		06/23/15 15:23	1
Toluene-d8 (Surr)	113		71 - 118		06/23/15 15:23	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 18:57	1
Lead	1.8	J	10	1.2	ug/L		06/23/15 08:43	06/26/15 18:57	1

Client Sample ID: WG-18036-061815-DJT-003

Lab Sample ID: 180-45236-4

Date Collected: 06/18/15 10:30

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 15:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 15:51	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 15:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 15:51	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 15:51	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		58 - 135		06/23/15 15:51	1
4-Bromofluorobenzene (Surr)	93		62 - 123		06/23/15 15:51	1
Dibromofluoromethane (Surr)	107		64 - 128		06/23/15 15:51	1
Toluene-d8 (Surr)	114		71 - 118		06/23/15 15:51	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 19:02	1
Lead	10	U	10	1.2	ug/L		06/23/15 08:43	06/26/15 19:02	1

Client Sample ID: WG-18036-061815-SG-004

Lab Sample ID: 180-45236-5

Date Collected: 06/18/15 10:10

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 16:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 16:18	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 16:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 16:18	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 16:18	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		58 - 135		06/23/15 16:18	1
4-Bromofluorobenzene (Surr)	90		62 - 123		06/23/15 16:18	1
Dibromofluoromethane (Surr)	108		64 - 128		06/23/15 16:18	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Client Sample ID: WG-18036-061815-SG-004

Lab Sample ID: 180-45236-5

Date Collected: 06/18/15 10:10

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	115		71 - 118		06/23/15 16:18	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 19:07	1
Lead	10	U	10	1.2	ug/L		06/23/15 08:43	06/26/15 19:07	1

Client Sample ID: WG-18036-061815-DJT-005

Lab Sample ID: 180-45236-6

Date Collected: 06/18/15 11:30

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 16:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 16:46	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 16:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 16:46	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 16:46	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		58 - 135		06/23/15 16:46	1
4-Bromofluorobenzene (Surr)	90		62 - 123		06/23/15 16:46	1
Dibromofluoromethane (Surr)	107		64 - 128		06/23/15 16:46	1
Toluene-d8 (Surr)	113		71 - 118		06/23/15 16:46	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 19:12	1
Lead	10	U	10	1.2	ug/L		06/23/15 08:43	06/26/15 19:12	1

Client Sample ID: WG-18036-061815-SG-006

Lab Sample ID: 180-45236-7

Date Collected: 06/18/15 10:10

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 17:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 17:13	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 17:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 17:13	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 17:13	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		58 - 135		06/23/15 17:13	1
4-Bromofluorobenzene (Surr)	84		62 - 123		06/23/15 17:13	1
Dibromofluoromethane (Surr)	98		64 - 128		06/23/15 17:13	1
Toluene-d8 (Surr)	108		71 - 118		06/23/15 17:13	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Client Sample ID: WG-18036-061815-SG-006

Lab Sample ID: 180-45236-7

Date Collected: 06/18/15 10:10

Matrix: Water

Date Received: 06/19/15 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 19:18	1
Lead	10	U	10	1.2	ug/L		06/23/15 08:43	06/26/15 19:18	1

Client Sample ID: WG-18036-061815-DJT-007

Lab Sample ID: 180-45236-8

Date Collected: 06/18/15 12:30

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 17:40	1
cis-1,2-Dichloroethene	0.45	J	1.0	0.24	ug/L			06/23/15 17:40	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 17:40	1
trans-1,2-Dichloroethene	0.17	J	1.0	0.17	ug/L			06/23/15 17:40	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 17:40	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		58 - 135		06/23/15 17:40	1
4-Bromofluorobenzene (Surr)	84		62 - 123		06/23/15 17:40	1
Dibromofluoromethane (Surr)	96		64 - 128		06/23/15 17:40	1
Toluene-d8 (Surr)	105		71 - 118		06/23/15 17:40	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 19:23	1
Lead	10	U	10	1.2	ug/L		06/23/15 08:43	06/26/15 19:23	1

Client Sample ID: WG-18036-061815-SG-008

Lab Sample ID: 180-45236-9

Date Collected: 06/18/15 11:30

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 18:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 18:08	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 18:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 18:08	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 18:08	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		58 - 135		06/23/15 18:08	1
4-Bromofluorobenzene (Surr)	86		62 - 123		06/23/15 18:08	1
Dibromofluoromethane (Surr)	99		64 - 128		06/23/15 18:08	1
Toluene-d8 (Surr)	109		71 - 118		06/23/15 18:08	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 19:28	1
Lead	10	U	10	1.2	ug/L		06/23/15 08:43	06/26/15 19:28	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Client Sample ID: WG-18036-061815-SG-009

Lab Sample ID: 180-45236-10

Date Collected: 06/18/15 13:40

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 18:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 18:36	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 18:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 18:36	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 18:36	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		58 - 135		06/23/15 18:36	1
4-Bromofluorobenzene (Surr)	91		62 - 123		06/23/15 18:36	1
Dibromofluoromethane (Surr)	103		64 - 128		06/23/15 18:36	1
Toluene-d8 (Surr)	112		71 - 118		06/23/15 18:36	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 19:33	1
Lead	120		10	1.2	ug/L		06/23/15 08:43	06/26/15 19:33	1

Client Sample ID: WG-18036-061815-SG-010

Lab Sample ID: 180-45236-11

Date Collected: 06/18/15 12:20

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/24/15 14:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/24/15 14:47	1
Toluene	1.0	U	1.0	0.15	ug/L			06/24/15 14:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/24/15 14:47	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/24/15 14:47	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/24/15 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		58 - 135		06/24/15 14:47	1
4-Bromofluorobenzene (Surr)	85		62 - 123		06/24/15 14:47	1
Dibromofluoromethane (Surr)	123		64 - 128		06/24/15 14:47	1
Toluene-d8 (Surr)	102		71 - 118		06/24/15 14:47	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 19:39	1
Lead	3.4	J	10	1.2	ug/L		06/23/15 08:43	06/26/15 19:39	1

Client Sample ID: WG-18036-061815-SG-011

Lab Sample ID: 180-45236-12

Date Collected: 06/18/15 14:35

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/24/15 15:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/24/15 15:15	1
Toluene	1.0	U	1.0	0.15	ug/L			06/24/15 15:15	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Client Sample ID: WG-18036-061815-SG-011

Lab Sample ID: 180-45236-12

Date Collected: 06/18/15 14:35

Matrix: Water

Date Received: 06/19/15 09:15

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/24/15 15:15	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/24/15 15:15	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/24/15 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135		06/24/15 15:15	1
4-Bromofluorobenzene (Surr)	93		62 - 123		06/24/15 15:15	1
Dibromofluoromethane (Surr)	115		64 - 128		06/24/15 15:15	1
Toluene-d8 (Surr)	117		71 - 118		06/24/15 15:15	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 20:09	1
Lead	10	U	10	1.2	ug/L		06/23/15 08:43	06/26/15 20:09	1

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-145812/5

Matrix: Water

Analysis Batch: 145812

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/23/15 11:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/23/15 11:07	1
Toluene	1.0	U	1.0	0.15	ug/L			06/23/15 11:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/23/15 11:07	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/23/15 11:07	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/23/15 11:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		58 - 135		06/23/15 11:07	1
4-Bromofluorobenzene (Surr)	92		62 - 123		06/23/15 11:07	1
Dibromofluoromethane (Surr)	106		64 - 128		06/23/15 11:07	1
Toluene-d8 (Surr)	112		71 - 118		06/23/15 11:07	1

Lab Sample ID: LCS 180-145812/1003

Matrix: Water

Analysis Batch: 145812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	11.6		ug/L		116	75 - 125
cis-1,2-Dichloroethene	10.0	9.24		ug/L		92	69 - 127
Toluene	10.0	11.4		ug/L		114	74 - 126
trans-1,2-Dichloroethene	10.0	9.85		ug/L		98	69 - 131
Trichloroethene	10.0	7.38		ug/L		74	73 - 125
Vinyl chloride	10.0	8.07		ug/L		81	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		58 - 135
4-Bromofluorobenzene (Surr)	91		62 - 123
Dibromofluoromethane (Surr)	91		64 - 128
Toluene-d8 (Surr)	97		71 - 118

Lab Sample ID: 180-45236-2 MS

Matrix: Water

Analysis Batch: 145812

Client Sample ID: WG-18036-061815-DJT-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	10.9		ug/L		109	75 - 125
cis-1,2-Dichloroethene	1.0	U	10.0	10.9		ug/L		109	69 - 127
Toluene	1.0	U	10.0	11.6		ug/L		116	74 - 126
trans-1,2-Dichloroethene	1.0	U	10.0	9.57		ug/L		96	69 - 131
Trichloroethene	1.0	U	10.0	9.66		ug/L		97	73 - 125
Vinyl chloride	1.0	U	10.0	8.52		ug/L		85	30 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		58 - 135
4-Bromofluorobenzene (Surr)	90		62 - 123
Dibromofluoromethane (Surr)	98		64 - 128

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-45236-2 MS

Matrix: Water

Analysis Batch: 145812

Client Sample ID: WG-18036-061815-DJT-001

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	112		71 - 118

Lab Sample ID: 180-45236-2 MSD

Matrix: Water

Analysis Batch: 145812

Client Sample ID: WG-18036-061815-DJT-001

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	10.0	10.8		ug/L		108	75 - 125	1	25
cis-1,2-Dichloroethene	1.0	U	10.0	10.5		ug/L		105	69 - 127	3	20
Toluene	1.0	U	10.0	11.5		ug/L		115	74 - 126	1	25
trans-1,2-Dichloroethene	1.0	U	10.0	9.39		ug/L		94	69 - 131	2	25
Trichloroethene	1.0	U	10.0	9.85		ug/L		99	73 - 125	2	25
Vinyl chloride	1.0	U	10.0	8.80		ug/L		88	30 - 140	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		58 - 135
4-Bromofluorobenzene (Surr)	87		62 - 123
Dibromofluoromethane (Surr)	99		64 - 128
Toluene-d8 (Surr)	112		71 - 118

Lab Sample ID: MB 180-145957/5

Matrix: Water

Analysis Batch: 145957

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			06/24/15 14:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			06/24/15 14:11	1
Toluene	1.0	U	1.0	0.15	ug/L			06/24/15 14:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/24/15 14:11	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			06/24/15 14:11	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			06/24/15 14:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		58 - 135		06/24/15 14:11	1
4-Bromofluorobenzene (Surr)	91		62 - 123		06/24/15 14:11	1
Dibromofluoromethane (Surr)	114		64 - 128		06/24/15 14:11	1
Toluene-d8 (Surr)	114		71 - 118		06/24/15 14:11	1

Lab Sample ID: LCS 180-145957/1002

Matrix: Water

Analysis Batch: 145957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.9		ug/L		109	75 - 125
cis-1,2-Dichloroethene	10.0	11.2		ug/L		112	69 - 127
Toluene	10.0	11.1		ug/L		111	74 - 126
trans-1,2-Dichloroethene	10.0	9.04		ug/L		90	69 - 131

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-145957/1002

Matrix: Water

Analysis Batch: 145957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	10.0	10.6		ug/L		106	73 - 125
Vinyl chloride	10.0	8.67		ug/L		87	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		58 - 135
4-Bromofluorobenzene (Surr)	92		62 - 123
Dibromofluoromethane (Surr)	101		64 - 128
Toluene-d8 (Surr)	108		71 - 118

Lab Sample ID: 180-45236-12 MS

Matrix: Water

Analysis Batch: 145957

Client Sample ID: WG-18036-061815-SG-011

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	10.5		ug/L		105	75 - 125
cis-1,2-Dichloroethene	1.0	U	10.0	11.8		ug/L		118	69 - 127
Toluene	1.0	U	10.0	10.9		ug/L		109	74 - 126
trans-1,2-Dichloroethene	1.0	U	10.0	9.55		ug/L		95	69 - 131
Trichloroethene	1.0	U	10.0	10.8		ug/L		108	73 - 125
Vinyl chloride	1.0	U	10.0	7.94		ug/L		79	30 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		58 - 135
4-Bromofluorobenzene (Surr)	88		62 - 123
Dibromofluoromethane (Surr)	112		64 - 128
Toluene-d8 (Surr)	102		71 - 118

Lab Sample ID: 180-45236-12 MSD

Matrix: Water

Analysis Batch: 145957

Client Sample ID: WG-18036-061815-SG-011

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	10.0	10.1		ug/L		101	75 - 125	4	25
cis-1,2-Dichloroethene	1.0	U	10.0	11.4		ug/L		114	69 - 127	3	20
Toluene	1.0	U	10.0	10.9		ug/L		109	74 - 126	1	25
trans-1,2-Dichloroethene	1.0	U	10.0	8.76		ug/L		88	69 - 131	9	25
Trichloroethene	1.0	U	10.0	11.7		ug/L		117	73 - 125	8	25
Vinyl chloride	1.0	U	10.0	7.47		ug/L		75	30 - 140	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		58 - 135
4-Bromofluorobenzene (Surr)	95		62 - 123
Dibromofluoromethane (Surr)	109		64 - 128
Toluene-d8 (Surr)	104		71 - 118

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-145822/1-A
Matrix: Water
Analysis Batch: 146277

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 145822

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	5.0	U	5.0	0.13	ug/L		06/23/15 08:43	06/26/15 18:12	1
Lead	10	U	10	1.2	ug/L		06/23/15 08:43	06/26/15 18:12	1

Lab Sample ID: LCS 180-145822/2-A
Matrix: Water
Analysis Batch: 146277

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 145822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	500	505		ug/L		101	85 - 115

Lab Sample ID: 180-45236-2 MS
Matrix: Water
Analysis Batch: 146277

Client Sample ID: WG-18036-061815-DJT-001
Prep Type: Total Recoverable
Prep Batch: 145822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10	U	500	498		ug/L		100	70 - 130

Lab Sample ID: 180-45236-2 MSD
Matrix: Water
Analysis Batch: 146277

Client Sample ID: WG-18036-061815-DJT-001
Prep Type: Total Recoverable
Prep Batch: 145822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	10	U	500	489		ug/L		98	70 - 130	2	20

Lab Sample ID: 180-45236-11 MS
Matrix: Water
Analysis Batch: 146277

Client Sample ID: WG-18036-061815-SG-010
Prep Type: Total Recoverable
Prep Batch: 145822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	3.4	J	500	500		ug/L		99	70 - 130

Lab Sample ID: 180-45236-11 MSD
Matrix: Water
Analysis Batch: 146277

Client Sample ID: WG-18036-061815-SG-010
Prep Type: Total Recoverable
Prep Batch: 145822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	3.4	J	500	498		ug/L		99	70 - 130	0	20

QC Association Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

GC/MS VOA

Analysis Batch: 145812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-45236-1	TB-18036-061815-DJT	Total/NA	Water	624	
180-45236-2	WG-18036-061815-DJT-001	Total/NA	Water	624	
180-45236-3	WG-18036-061815-SG-002	Total/NA	Water	624	
180-45236-4	WG-18036-061815-DJT-003	Total/NA	Water	624	
180-45236-5	WG-18036-061815-SG-004	Total/NA	Water	624	
180-45236-6	WG-18036-061815-DJT-005	Total/NA	Water	624	
180-45236-7	WG-18036-061815-SG-006	Total/NA	Water	624	
180-45236-8	WG-18036-061815-DJT-007	Total/NA	Water	624	
180-45236-9	WG-18036-061815-SG-008	Total/NA	Water	624	
180-45236-10	WG-18036-061815-SG-009	Total/NA	Water	624	
MB 180-145812/5	Method Blank	Total/NA	Water	624	
LCS 180-145812/1003	Lab Control Sample	Total/NA	Water	624	
180-45236-2 MS	WG-18036-061815-DJT-001	Total/NA	Water	624	
180-45236-2 MSD	WG-18036-061815-DJT-001	Total/NA	Water	624	

Analysis Batch: 145957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-45236-11	WG-18036-061815-SG-010	Total/NA	Water	624	
180-45236-12	WG-18036-061815-SG-011	Total/NA	Water	624	
MB 180-145957/5	Method Blank	Total/NA	Water	624	
LCS 180-145957/1002	Lab Control Sample	Total/NA	Water	624	
180-45236-12 MS	WG-18036-061815-SG-011	Total/NA	Water	624	
180-45236-12 MSD	WG-18036-061815-SG-011	Total/NA	Water	624	

Metals

Prep Batch: 145822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-45236-2	WG-18036-061815-DJT-001	Total Recoverable	Water	200.7	
180-45236-3	WG-18036-061815-SG-002	Total Recoverable	Water	200.7	
180-45236-4	WG-18036-061815-DJT-003	Total Recoverable	Water	200.7	
180-45236-5	WG-18036-061815-SG-004	Total Recoverable	Water	200.7	
180-45236-6	WG-18036-061815-DJT-005	Total Recoverable	Water	200.7	
180-45236-7	WG-18036-061815-SG-006	Total Recoverable	Water	200.7	
180-45236-8	WG-18036-061815-DJT-007	Total Recoverable	Water	200.7	
180-45236-9	WG-18036-061815-SG-008	Total Recoverable	Water	200.7	
180-45236-10	WG-18036-061815-SG-009	Total Recoverable	Water	200.7	
180-45236-11	WG-18036-061815-SG-010	Total Recoverable	Water	200.7	
180-45236-12	WG-18036-061815-SG-011	Total Recoverable	Water	200.7	
MB 180-145822/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-145822/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
180-45236-2 MS	WG-18036-061815-DJT-001	Total Recoverable	Water	200.7	
180-45236-2 MSD	WG-18036-061815-DJT-001	Total Recoverable	Water	200.7	
180-45236-11 MS	WG-18036-061815-SG-010	Total Recoverable	Water	200.7	
180-45236-11 MSD	WG-18036-061815-SG-010	Total Recoverable	Water	200.7	

Analysis Batch: 146277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-45236-2	WG-18036-061815-DJT-001	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-3	WG-18036-061815-SG-002	Total Recoverable	Water	200.7 Rev 4.4	145822

TestAmerica Pittsburgh

QC Association Summary

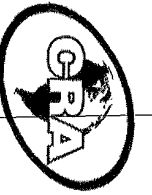
Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-45236-1

Metals (Continued)

Analysis Batch: 146277 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-45236-4	WG-18036-061815-DJT-003	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-5	WG-18036-061815-SG-004	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-6	WG-18036-061815-DJT-005	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-7	WG-18036-061815-SG-006	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-8	WG-18036-061815-DJT-007	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-9	WG-18036-061815-SG-008	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-10	WG-18036-061815-SG-009	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-11	WG-18036-061815-SG-010	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-12	WG-18036-061815-SG-011	Total Recoverable	Water	200.7 Rev 4.4	145822
MB 180-145822/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	145822
LCS 180-145822/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-2 MS	WG-18036-061815-DJT-001	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-2 MSD	WG-18036-061815-DJT-001	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-11 MS	WG-18036-061815-SG-010	Total Recoverable	Water	200.7 Rev 4.4	145822
180-45236-11 MSD	WG-18036-061815-SG-010	Total Recoverable	Water	200.7 Rev 4.4	145822



CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD
Address: 2055 N
Phone: 716-291-6151
Fax:
see Falls Blvd

COC NO.: 48226
PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No./Phase/Task Code:
18036-2014

Lab Name:
Test America

Lab Location:
Pittsburgh

SSOW ID:
Cooler No.:

Project Name:
BN1A Quarterly Pest-closure Venture

Project Location:
Buffalo Airport

Lab Contact:

Lab Quote No.:

Carrier:

Sampler(s):
S. Gardner D. Tyran

Chemistry Contact:

Carrier:

Airbill No.:

Date Shipped:
6.18.15

COMMENTS/
SPECIAL INSTRUCTIONS:

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (month/day)	TIME (hr:min)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	VOCs	Metals	ANALYSIS REQUESTED (See Back of COC for Definitions)	MS/MSD Request
1	TR-18036-061815-DST	6-18-15		TR G			X							2	X			
2	WG-18036-061815-DST-001	6-18-15	0940	WG G			X							12	X			X
3	WG-18036-061815-54-002	6-18-15	0920	WG G			X							4	X			
4	WG-18036-061815-DST-003	6-18-15	1030	WG G			X							4	X			
5	WG-18036-061815-54-004	6-18-15	1010	WG G			X							4	X			
6	WG-18036-061815-DST-005	6-18-15	1130	WG G			X							4	X			
7	WG-18036-061815-54-006	6-18-15	1010	WG G			X							4	X			
8	WG-18036-061815-DST-007	6-18-15	1230	WG G			X							4	X			
9	WG-18036-061815-54-008	6-18-15	1130	WG G			X							4	X			
10	WG-18036-061815-54-009	6-18-15	1340	WG G			X							4	X			
11	WG-18036-061815-54-010	6-18-15	1220	WG G			X							4	X			
12	WG-18036-061815-54-011	6-18-15	1435	WG G			X							4	X			
13																		
14																		
15																		



180-45236 Chain of Custody

TAT Required in business days (use separate COCs for different TATs):

1 Day 2 Days 3 Days 1 Week 2 Week Other: Standard

Total Number of Containers:
All Samples in Cooler must be on COC

Notes/Special Requirements:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
<u>David Syman</u>	CRA	6-18-15	1540	<u>Phillip Western</u>	AAF	6-18-15	9:15

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew CRA Form: COC-108 (20110804)



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- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

ORIGIN ID:DKKA (716) 297-2160
 BRITT GEBHARDT
 CRA SERVICES
 2055 NIAGARA FALLS BLVD
 NIAGARA FALLS, NY 14304
 UNITED STATES US

SHIP DATE: 18JUN15
 ACTWGT: 30.0 LB MAN
 CAD: 884177CAFE2807

BILL THIRD PARTY

TO **SAMPLE CUSTODIAN**
TEST AMERICA
301 ALPHA DRIVE

PITTSBURGH PA 152381330

(412) 963-7058

REF: 018036 - 2014 GEB (OSCA)



FedEx
Express



1 of 3

TRK# 5849 9435 5249
 0201

MASTER

FRI - 19 JUN 10:30A
PRIORITY OVERNIGHT

NA AGCA

15238
 PA-US **PIT**

Uncorrected temp

3.7 °C

Thermometer ID

1

CF rs

Initials OS

PT-WI-SR-001 effective 7/26/13



180-45236 Waybill

Login Sample Receipt Checklist

Client: Leo Brausch Consulting

Job Number: 180-45236-1

Login Number: 45236

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-47663-1

Client Project/Site: Buffalo Airport

Revision: 1

For:

Brausch Environmental LLC

5318 Alexa Road

Charlotte, North Carolina 28277

Attn: Leo Brausch



Authorized for release by:

11/10/2016 4:46:34 PM

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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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Table of Contents

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Case Narrative

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Job ID: 180-47663-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-47663-1 REV1

Note

The client added an analyte to method 624 after the report went out. A revised report (Rev1) was created.

Receipt

The samples were received on 9/11/2015 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

The chain of custody did not list sampling times for TB-18036-091015-SG or WG-18036-091015-SG-011. The earliest sample time was logged in for sample TB-18036-091015-SG and the time on the sample containers was logged in for sample WG-18036-091015-SG-011.

The chain of custody listed sample WG-18036-091015-SG-002 with a sampling time of 08:25. The containers with a sampling time of 08:25 were labeled as WG-18036-091015-SG-001. The sampled Identification was logged in off of the chain of custody.

GC/MS VOA

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

Metals

Due to sample matrix effect on the internal standard (ISTD), samples WG-18036-091015-SG-006 (180-47663-6) and WG-18036-091015-SG-011 (180-47663-11) were analyzed at a dilution for lead. The reporting limits have been adjusted accordingly.

Definitions/Glossary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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)

Certification Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-17

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Sample Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-47663-1	WG-18036-091015-DT-001	Water	09/10/15 08:45	09/11/15 09:20
180-47663-2	WG-18036-091015-SG-002	Water	09/10/15 08:25	09/11/15 09:20
180-47663-3	WG-18036-091015-DT-003	Water	09/10/15 09:50	09/11/15 09:20
180-47663-4	WG-18036-091015-SG-004	Water	09/10/15 09:40	09/11/15 09:20
180-47663-5	WG-18036-091015-DT-005	Water	09/10/15 11:00	09/11/15 09:20
180-47663-6	WG-18036-091015-SG-006	Water	09/10/15 11:00	09/11/15 09:20
180-47663-7	WG-18036-091015-DT-007	Water	09/10/15 12:35	09/11/15 09:20
180-47663-8	WG-18036-091015-SG-008	Water	09/10/15 11:45	09/11/15 09:20
180-47663-9	WG-18036-091015-DT-009	Water	09/10/15 12:35	09/11/15 09:20
180-47663-10	WG-18036-091015-SG-010	Water	09/10/15 12:45	09/11/15 09:20
180-47663-11	WG-18036-091015-SG-011	Water	09/10/15 13:55	09/11/15 09:20
180-47663-12	TB-18036-091015-SG	Water	09/10/15 08:25	09/11/15 09:20

Method Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Client Sample ID: WG-18036-091015-DT-001

Lab Sample ID: 180-47663-1

Date Collected: 09/10/15 08:45

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	153686	09/15/15 22:29	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 15:10	RJR	TAL PIT
		Instrument ID: Q								

Client Sample ID: WG-18036-091015-SG-002

Lab Sample ID: 180-47663-2

Date Collected: 09/10/15 08:25

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	153686	09/15/15 12:40	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	153502	09/14/15 07:03	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 13:03	RJR	TAL PIT
		Instrument ID: Q								

Client Sample ID: WG-18036-091015-DT-003

Lab Sample ID: 180-47663-3

Date Collected: 09/10/15 09:50

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	153686	09/15/15 22:53	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 15:15	RJR	TAL PIT
		Instrument ID: Q								

Client Sample ID: WG-18036-091015-SG-004

Lab Sample ID: 180-47663-4

Date Collected: 09/10/15 09:40

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	153686	09/15/15 23:18	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 15:20	RJR	TAL PIT
		Instrument ID: Q								

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Client Sample ID: WG-18036-091015-DT-005

Lab Sample ID: 180-47663-5

Date Collected: 09/10/15 11:00

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	154014	09/17/15 18:38	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 14:38	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-091015-SG-006

Lab Sample ID: 180-47663-6

Date Collected: 09/10/15 11:00

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	154014	09/17/15 19:02	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 15:26	RJR	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			153915	09/16/15 15:00	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-091015-DT-007

Lab Sample ID: 180-47663-7

Date Collected: 09/10/15 12:35

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	154014	09/17/15 19:27	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 15:32	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-091015-SG-008

Lab Sample ID: 180-47663-8

Date Collected: 09/10/15 11:45

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	154014	09/17/15 19:51	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 15:37	RJR	TAL PIT
Instrument ID: Q										

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Client Sample ID: WG-18036-091015-DT-009

Lab Sample ID: 180-47663-9

Date Collected: 09/10/15 12:35

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	154014	09/17/15 20:40	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 15:43	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-091015-SG-010

Lab Sample ID: 180-47663-10

Date Collected: 09/10/15 12:45

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	154014	09/17/15 21:04	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 15:48	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-091015-SG-011

Lab Sample ID: 180-47663-11

Date Collected: 09/10/15 13:55

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	154014	09/17/15 21:29	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			153775	09/15/15 15:54	RJR	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	153573	09/14/15 11:41	BMH	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			153915	09/16/15 15:06	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: TB-18036-091015-SG

Lab Sample ID: 180-47663-12

Date Collected: 09/10/15 08:25

Matrix: Water

Date Received: 09/11/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	153686	09/15/15 13:04	DLF	TAL PIT
Instrument ID: CHHP6										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

BMH = Bobbi Hartsock

Batch Type: Analysis

DLF = Donald Ferguson

RJR = Ron Rosenbaum

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Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Client Sample ID: WG-18036-091015-DT-001

Lab Sample ID: 180-47663-1

Date Collected: 09/10/15 08:45

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/15/15 22:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/15/15 22:29	1
Toluene	1.0	U	1.0	0.15	ug/L			09/15/15 22:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/15/15 22:29	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/15/15 22:29	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/15/15 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		58 - 135		09/15/15 22:29	1
4-Bromofluorobenzene (Surr)	90		62 - 123		09/15/15 22:29	1
Dibromofluoromethane (Surr)	114		64 - 128		09/15/15 22:29	1
Toluene-d8 (Surr)	104		71 - 118		09/15/15 22:29	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 15:10	1
Lead	10	U	10	2.0	ug/L		09/14/15 11:41	09/15/15 15:10	1

Client Sample ID: WG-18036-091015-SG-002

Lab Sample ID: 180-47663-2

Date Collected: 09/10/15 08:25

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/15/15 12:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/15/15 12:40	1
Toluene	1.0	U	1.0	0.15	ug/L			09/15/15 12:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/15/15 12:40	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/15/15 12:40	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/15/15 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		58 - 135		09/15/15 12:40	1
4-Bromofluorobenzene (Surr)	89		62 - 123		09/15/15 12:40	1
Dibromofluoromethane (Surr)	114		64 - 128		09/15/15 12:40	1
Toluene-d8 (Surr)	108		71 - 118		09/15/15 12:40	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 07:03	09/15/15 13:03	1
Lead	10	U	10	2.0	ug/L		09/14/15 07:03	09/15/15 13:03	1

Client Sample ID: WG-18036-091015-DT-003

Lab Sample ID: 180-47663-3

Date Collected: 09/10/15 09:50

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/15/15 22:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/15/15 22:53	1
Toluene	1.0	U	1.0	0.15	ug/L			09/15/15 22:53	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Client Sample ID: WG-18036-091015-DT-003

Lab Sample ID: 180-47663-3

Date Collected: 09/10/15 09:50

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/15/15 22:53	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/15/15 22:53	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/15/15 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		58 - 135		09/15/15 22:53	1
4-Bromofluorobenzene (Surr)	90		62 - 123		09/15/15 22:53	1
Dibromofluoromethane (Surr)	113		64 - 128		09/15/15 22:53	1
Toluene-d8 (Surr)	107		71 - 118		09/15/15 22:53	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 15:15	1
Lead	10	U	10	2.0	ug/L		09/14/15 11:41	09/15/15 15:15	1

Client Sample ID: WG-18036-091015-SG-004

Lab Sample ID: 180-47663-4

Date Collected: 09/10/15 09:40

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/15/15 23:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/15/15 23:18	1
Toluene	1.0	U	1.0	0.15	ug/L			09/15/15 23:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/15/15 23:18	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/15/15 23:18	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/15/15 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		58 - 135		09/15/15 23:18	1
4-Bromofluorobenzene (Surr)	87		62 - 123		09/15/15 23:18	1
Dibromofluoromethane (Surr)	120		64 - 128		09/15/15 23:18	1
Toluene-d8 (Surr)	103		71 - 118		09/15/15 23:18	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 15:20	1
Lead	2.0	J	10	2.0	ug/L		09/14/15 11:41	09/15/15 15:20	1

Client Sample ID: WG-18036-091015-DT-005

Lab Sample ID: 180-47663-5

Date Collected: 09/10/15 11:00

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/17/15 18:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/17/15 18:38	1
Toluene	1.0	U	1.0	0.15	ug/L			09/17/15 18:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/17/15 18:38	1
Trichloroethene	0.18	J	1.0	0.14	ug/L			09/17/15 18:38	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/17/15 18:38	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Client Sample ID: WG-18036-091015-DT-005

Lab Sample ID: 180-47663-5

Date Collected: 09/10/15 11:00

Matrix: Water

Date Received: 09/11/15 09:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		58 - 135		09/17/15 18:38	1
4-Bromofluorobenzene (Surr)	88		62 - 123		09/17/15 18:38	1
Dibromofluoromethane (Surr)	113		64 - 128		09/17/15 18:38	1
Toluene-d8 (Surr)	105		71 - 118		09/17/15 18:38	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 14:38	1
Lead	10	U	10	2.0	ug/L		09/14/15 11:41	09/15/15 14:38	1

Client Sample ID: WG-18036-091015-SG-006

Lab Sample ID: 180-47663-6

Date Collected: 09/10/15 11:00

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/17/15 19:02	1
cis-1,2-Dichloroethene	0.32	J	1.0	0.24	ug/L			09/17/15 19:02	1
Toluene	1.0	U	1.0	0.15	ug/L			09/17/15 19:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/17/15 19:02	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/17/15 19:02	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/17/15 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		58 - 135		09/17/15 19:02	1
4-Bromofluorobenzene (Surr)	89		62 - 123		09/17/15 19:02	1
Dibromofluoromethane (Surr)	113		64 - 128		09/17/15 19:02	1
Toluene-d8 (Surr)	102		71 - 118		09/17/15 19:02	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 15:26	1
Lead	20	U	20	4.0	ug/L		09/14/15 11:41	09/16/15 15:00	2

Client Sample ID: WG-18036-091015-DT-007

Lab Sample ID: 180-47663-7

Date Collected: 09/10/15 12:35

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/17/15 19:27	1
cis-1,2-Dichloroethene	4.5		1.0	0.24	ug/L			09/17/15 19:27	1
Toluene	1.0	U	1.0	0.15	ug/L			09/17/15 19:27	1
trans-1,2-Dichloroethene	1.3		1.0	0.17	ug/L			09/17/15 19:27	1
Trichloroethene	0.65	J	1.0	0.14	ug/L			09/17/15 19:27	1
Vinyl chloride	7.4		1.0	0.23	ug/L			09/17/15 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		58 - 135		09/17/15 19:27	1
4-Bromofluorobenzene (Surr)	89		62 - 123		09/17/15 19:27	1
Dibromofluoromethane (Surr)	112		64 - 128		09/17/15 19:27	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Client Sample ID: WG-18036-091015-DT-007

Lab Sample ID: 180-47663-7

Date Collected: 09/10/15 12:35

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		71 - 118		09/17/15 19:27	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 15:32	1
Lead	10	U	10	2.0	ug/L		09/14/15 11:41	09/15/15 15:32	1

Client Sample ID: WG-18036-091015-SG-008

Lab Sample ID: 180-47663-8

Date Collected: 09/10/15 11:45

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/17/15 19:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/17/15 19:51	1
Toluene	1.0	U	1.0	0.15	ug/L			09/17/15 19:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/17/15 19:51	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/17/15 19:51	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/17/15 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		58 - 135		09/17/15 19:51	1
4-Bromofluorobenzene (Surr)	88		62 - 123		09/17/15 19:51	1
Dibromofluoromethane (Surr)	110		64 - 128		09/17/15 19:51	1
Toluene-d8 (Surr)	103		71 - 118		09/17/15 19:51	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 15:37	1
Lead	4.9	J	10	2.0	ug/L		09/14/15 11:41	09/15/15 15:37	1

Client Sample ID: WG-18036-091015-DT-009

Lab Sample ID: 180-47663-9

Date Collected: 09/10/15 12:35

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/17/15 20:40	1
cis-1,2-Dichloroethene	4.5		1.0	0.24	ug/L			09/17/15 20:40	1
Toluene	1.0	U	1.0	0.15	ug/L			09/17/15 20:40	1
trans-1,2-Dichloroethene	1.5		1.0	0.17	ug/L			09/17/15 20:40	1
Trichloroethene	0.61	J	1.0	0.14	ug/L			09/17/15 20:40	1
Vinyl chloride	6.4		1.0	0.23	ug/L			09/17/15 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		58 - 135		09/17/15 20:40	1
4-Bromofluorobenzene (Surr)	86		62 - 123		09/17/15 20:40	1
Dibromofluoromethane (Surr)	111		64 - 128		09/17/15 20:40	1
Toluene-d8 (Surr)	103		71 - 118		09/17/15 20:40	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Client Sample ID: WG-18036-091015-DT-009

Lab Sample ID: 180-47663-9

Date Collected: 09/10/15 12:35

Matrix: Water

Date Received: 09/11/15 09:20

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 15:43	1
Lead	10	U	10	2.0	ug/L		09/14/15 11:41	09/15/15 15:43	1

Client Sample ID: WG-18036-091015-SG-010

Lab Sample ID: 180-47663-10

Date Collected: 09/10/15 12:45

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/17/15 21:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/17/15 21:04	1
Toluene	1.0	U	1.0	0.15	ug/L			09/17/15 21:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/17/15 21:04	1
Trichloroethene	0.80	J F1	1.0	0.14	ug/L			09/17/15 21:04	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/17/15 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		58 - 135		09/17/15 21:04	1
4-Bromofluorobenzene (Surr)	87		62 - 123		09/17/15 21:04	1
Dibromofluoromethane (Surr)	110		64 - 128		09/17/15 21:04	1
Toluene-d8 (Surr)	105		71 - 118		09/17/15 21:04	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 15:48	1
Lead	10	U	10	2.0	ug/L		09/14/15 11:41	09/15/15 15:48	1

Client Sample ID: WG-18036-091015-SG-011

Lab Sample ID: 180-47663-11

Date Collected: 09/10/15 13:55

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/17/15 21:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/17/15 21:29	1
Toluene	1.0	U	1.0	0.15	ug/L			09/17/15 21:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/17/15 21:29	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/17/15 21:29	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/17/15 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		58 - 135		09/17/15 21:29	1
4-Bromofluorobenzene (Surr)	89		62 - 123		09/17/15 21:29	1
Dibromofluoromethane (Surr)	112		64 - 128		09/17/15 21:29	1
Toluene-d8 (Surr)	102		71 - 118		09/17/15 21:29	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 15:54	1
Lead	20	U	20	4.0	ug/L		09/14/15 11:41	09/16/15 15:06	2

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Client Sample ID: TB-18036-091015-SG

Lab Sample ID: 180-47663-12

Date Collected: 09/10/15 08:25

Matrix: Water

Date Received: 09/11/15 09:20

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/15/15 13:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/15/15 13:04	1
Toluene	1.0	U	1.0	0.15	ug/L			09/15/15 13:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/15/15 13:04	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/15/15 13:04	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/15/15 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		58 - 135		09/15/15 13:04	1
4-Bromofluorobenzene (Surr)	91		62 - 123		09/15/15 13:04	1
Dibromofluoromethane (Surr)	115		64 - 128		09/15/15 13:04	1
Toluene-d8 (Surr)	107		71 - 118		09/15/15 13:04	1



QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-153686/5

Matrix: Water

Analysis Batch: 153686

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/15/15 11:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/15/15 11:57	1
Toluene	1.0	U	1.0	0.15	ug/L			09/15/15 11:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/15/15 11:57	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/15/15 11:57	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/15/15 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		58 - 135		09/15/15 11:57	1
4-Bromofluorobenzene (Surr)	89		62 - 123		09/15/15 11:57	1
Dibromofluoromethane (Surr)	113		64 - 128		09/15/15 11:57	1
Toluene-d8 (Surr)	105		71 - 118		09/15/15 11:57	1

Lab Sample ID: LCS 180-153686/1002

Matrix: Water

Analysis Batch: 153686

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	11.3		ug/L		113	75 - 125
cis-1,2-Dichloroethene	10.0	9.26		ug/L		93	69 - 127
Toluene	10.0	10.9		ug/L		109	74 - 126
trans-1,2-Dichloroethene	10.0	9.60		ug/L		96	69 - 131
Trichloroethene	10.0	11.3		ug/L		113	73 - 125
Vinyl chloride	10.0	10.9		ug/L		109	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 135
4-Bromofluorobenzene (Surr)	99		62 - 123
Dibromofluoromethane (Surr)	100		64 - 128
Toluene-d8 (Surr)	105		71 - 118

Lab Sample ID: 180-47663-2 MS

Matrix: Water

Analysis Batch: 153686

Client Sample ID: WG-18036-091015-SG-002

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	10.1		ug/L		101	75 - 125
cis-1,2-Dichloroethene	1.0	U	10.0	9.11		ug/L		91	69 - 127
Toluene	1.0	U	10.0	10.3		ug/L		103	74 - 126
trans-1,2-Dichloroethene	1.0	U	10.0	9.46		ug/L		95	69 - 131
Trichloroethene	1.0	U	10.0	11.1		ug/L		111	73 - 125
Vinyl chloride	1.0	U	10.0	9.49		ug/L		95	30 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		58 - 135
4-Bromofluorobenzene (Surr)	92		62 - 123
Dibromofluoromethane (Surr)	95		64 - 128

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-47663-2 MS

Matrix: Water

Analysis Batch: 153686

Client Sample ID: WG-18036-091015-SG-002

Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		71 - 118

Lab Sample ID: 180-47663-2 MSD

Matrix: Water

Analysis Batch: 153686

Client Sample ID: WG-18036-091015-SG-002

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
1,1,1-Trichloroethane	1.0	U	10.0	10.4		ug/L		104	75 - 125	3	25	
cis-1,2-Dichloroethene	1.0	U	10.0	9.45		ug/L		94	69 - 127	4	20	
Toluene	1.0	U	10.0	10.3		ug/L		103	74 - 126	1	25	
trans-1,2-Dichloroethene	1.0	U	10.0	9.77		ug/L		98	69 - 131	3	25	
Trichloroethene	1.0	U	10.0	11.6		ug/L		116	73 - 125	5	25	
Vinyl chloride	1.0	U	10.0	9.72		ug/L		97	30 - 140	2	35	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		58 - 135
4-Bromofluorobenzene (Surr)	99		62 - 123
Dibromofluoromethane (Surr)	105		64 - 128
Toluene-d8 (Surr)	105		71 - 118

Lab Sample ID: MB 180-154014/5

Matrix: Water

Analysis Batch: 154014

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			09/17/15 13:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			09/17/15 13:57	1
Toluene	1.0	U	1.0	0.15	ug/L			09/17/15 13:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			09/17/15 13:57	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			09/17/15 13:57	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			09/17/15 13:57	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		58 - 135		09/17/15 13:57	1
4-Bromofluorobenzene (Surr)	88		62 - 123		09/17/15 13:57	1
Dibromofluoromethane (Surr)	107		64 - 128		09/17/15 13:57	1
Toluene-d8 (Surr)	101		71 - 118		09/17/15 13:57	1

Lab Sample ID: LCS 180-154014/1002

Matrix: Water

Analysis Batch: 154014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
1,1,1-Trichloroethane	10.0	9.38		ug/L		94	75 - 125	
cis-1,2-Dichloroethene	10.0	8.59		ug/L		86	69 - 127	
Toluene	10.0	9.99		ug/L		100	74 - 126	
trans-1,2-Dichloroethene	10.0	9.06		ug/L		91	69 - 131	

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-154014/1002
Matrix: Water
Analysis Batch: 154014

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	10.0	10.8		ug/L		108	73 - 125
Vinyl chloride	10.0	7.91		ug/L		79	30 - 140
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	98		58 - 135				
4-Bromofluorobenzene (Surr)	96		62 - 123				
Dibromofluoromethane (Surr)	102		64 - 128				
Toluene-d8 (Surr)	107		71 - 118				

Lab Sample ID: 180-47663-10 MS
Matrix: Water
Analysis Batch: 154014

Client Sample ID: WG-18036-091015-SG-010
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	11.1		ug/L		111	75 - 125
cis-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	69 - 127
Toluene	1.0	U	10.0	10.5		ug/L		105	74 - 126
trans-1,2-Dichloroethene	1.0	U	10.0	10.7		ug/L		107	69 - 131
Trichloroethene	0.80	J F1	10.0	13.4	F1	ug/L		126	73 - 125
Vinyl chloride	1.0	U	10.0	9.82		ug/L		98	30 - 140
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	115		58 - 135						
4-Bromofluorobenzene (Surr)	99		62 - 123						
Dibromofluoromethane (Surr)	115		64 - 128						
Toluene-d8 (Surr)	103		71 - 118						

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-153502/1-A
Matrix: Water
Analysis Batch: 153775

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 153502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 07:03	09/15/15 09:14	1
Lead	10	U	10	2.0	ug/L		09/14/15 07:03	09/15/15 09:14	1

Lab Sample ID: LCS 180-153502/2-A
Matrix: Water
Analysis Batch: 153775

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 153502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	49.8		ug/L		100	85 - 115
Lead	500	510		ug/L		102	85 - 115

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-47663-2 MS
Matrix: Water
Analysis Batch: 153775

Client Sample ID: WG-18036-091015-SG-002
Prep Type: Total Recoverable
Prep Batch: 153502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cadmium	5.0	U	50.0	47.5		ug/L		95	70 - 130
Lead	10	U	500	488		ug/L		98	70 - 130

Lab Sample ID: 180-47663-2 MSD
Matrix: Water
Analysis Batch: 153775

Client Sample ID: WG-18036-091015-SG-002
Prep Type: Total Recoverable
Prep Batch: 153502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	5.0	U	50.0	47.1		ug/L		94	70 - 130	1	20
Lead	10	U	500	491		ug/L		98	70 - 130	1	20

Lab Sample ID: MB 180-153573/1-A
Matrix: Water
Analysis Batch: 153775

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 153573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		09/14/15 11:41	09/15/15 14:28	1
Lead	10	U	10	2.0	ug/L		09/14/15 11:41	09/15/15 14:28	1

Lab Sample ID: LCS 180-153573/2-A
Matrix: Water
Analysis Batch: 153775

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 153573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	50.0	47.6		ug/L		95	85 - 115
Lead	500	486		ug/L		97	85 - 115

Lab Sample ID: 180-47663-5 MS
Matrix: Water
Analysis Batch: 153775

Client Sample ID: WG-18036-091015-DT-005
Prep Type: Total Recoverable
Prep Batch: 153573

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cadmium	5.0	U	50.0	47.7		ug/L		95	70 - 130
Lead	10	U	500	499		ug/L		100	70 - 130

Lab Sample ID: 180-47663-5 MSD
Matrix: Water
Analysis Batch: 153775

Client Sample ID: WG-18036-091015-DT-005
Prep Type: Total Recoverable
Prep Batch: 153573

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	5.0	U	50.0	47.6		ug/L		95	70 - 130	0	20
Lead	10	U	500	493		ug/L		99	70 - 130	1	20

TestAmerica Pittsburgh

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

GC/MS VOA

Analysis Batch: 153686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47663-1	WG-18036-091015-DT-001	Total/NA	Water	624	
180-47663-2	WG-18036-091015-SG-002	Total/NA	Water	624	
180-47663-3	WG-18036-091015-DT-003	Total/NA	Water	624	
180-47663-4	WG-18036-091015-SG-004	Total/NA	Water	624	
180-47663-12	TB-18036-091015-SG	Total/NA	Water	624	
MB 180-153686/5	Method Blank	Total/NA	Water	624	
LCS 180-153686/1002	Lab Control Sample	Total/NA	Water	624	
180-47663-2 MS	WG-18036-091015-SG-002	Total/NA	Water	624	
180-47663-2 MSD	WG-18036-091015-SG-002	Total/NA	Water	624	

Analysis Batch: 154014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47663-5	WG-18036-091015-DT-005	Total/NA	Water	624	
180-47663-6	WG-18036-091015-SG-006	Total/NA	Water	624	
180-47663-7	WG-18036-091015-DT-007	Total/NA	Water	624	
180-47663-8	WG-18036-091015-SG-008	Total/NA	Water	624	
180-47663-9	WG-18036-091015-DT-009	Total/NA	Water	624	
180-47663-10	WG-18036-091015-SG-010	Total/NA	Water	624	
180-47663-11	WG-18036-091015-SG-011	Total/NA	Water	624	
MB 180-154014/5	Method Blank	Total/NA	Water	624	
LCS 180-154014/1002	Lab Control Sample	Total/NA	Water	624	
180-47663-10 MS	WG-18036-091015-SG-010	Total/NA	Water	624	

Metals

Prep Batch: 153502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47663-2	WG-18036-091015-SG-002	Total Recoverable	Water	200.7	
MB 180-153502/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-153502/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
180-47663-2 MS	WG-18036-091015-SG-002	Total Recoverable	Water	200.7	
180-47663-2 MSD	WG-18036-091015-SG-002	Total Recoverable	Water	200.7	

Prep Batch: 153573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47663-1	WG-18036-091015-DT-001	Total Recoverable	Water	200.7	
180-47663-3	WG-18036-091015-DT-003	Total Recoverable	Water	200.7	
180-47663-4	WG-18036-091015-SG-004	Total Recoverable	Water	200.7	
180-47663-5	WG-18036-091015-DT-005	Total Recoverable	Water	200.7	
180-47663-6	WG-18036-091015-SG-006	Total Recoverable	Water	200.7	
180-47663-7	WG-18036-091015-DT-007	Total Recoverable	Water	200.7	
180-47663-8	WG-18036-091015-SG-008	Total Recoverable	Water	200.7	
180-47663-9	WG-18036-091015-DT-009	Total Recoverable	Water	200.7	
180-47663-10	WG-18036-091015-SG-010	Total Recoverable	Water	200.7	
180-47663-11	WG-18036-091015-SG-011	Total Recoverable	Water	200.7	
MB 180-153573/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-153573/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
180-47663-5 MS	WG-18036-091015-DT-005	Total Recoverable	Water	200.7	
180-47663-5 MSD	WG-18036-091015-DT-005	Total Recoverable	Water	200.7	

TestAmerica Pittsburgh

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-47663-1

Metals (Continued)

Analysis Batch: 153775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47663-1	WG-18036-091015-DT-001	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-2	WG-18036-091015-SG-002	Total Recoverable	Water	200.7 Rev 4.4	153502
180-47663-3	WG-18036-091015-DT-003	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-4	WG-18036-091015-SG-004	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-5	WG-18036-091015-DT-005	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-6	WG-18036-091015-SG-006	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-7	WG-18036-091015-DT-007	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-8	WG-18036-091015-SG-008	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-9	WG-18036-091015-DT-009	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-10	WG-18036-091015-SG-010	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-11	WG-18036-091015-SG-011	Total Recoverable	Water	200.7 Rev 4.4	153573
MB 180-153502/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	153502
MB 180-153573/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	153573
LCS 180-153502/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	153502
LCS 180-153573/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-2 MS	WG-18036-091015-SG-002	Total Recoverable	Water	200.7 Rev 4.4	153502
180-47663-2 MSD	WG-18036-091015-SG-002	Total Recoverable	Water	200.7 Rev 4.4	153502
180-47663-5 MS	WG-18036-091015-DT-005	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-5 MSD	WG-18036-091015-DT-005	Total Recoverable	Water	200.7 Rev 4.4	153573

Analysis Batch: 153915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-47663-6	WG-18036-091015-SG-006	Total Recoverable	Water	200.7 Rev 4.4	153573
180-47663-11	WG-18036-091015-SG-011	Total Recoverable	Water	200.7 Rev 4.4	153573



CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

Address: **N.F. Office**

Phone: _____

Fax: _____

COC NO: **48229**

PAGE **1** OF **1**

(See Reverse Side for Instructions)

Project No / Phase/Task Code: 18036-2014		Laboratory Name: Test America		Lab Location: Pittsburgh		SSOW ID:	
Project Name: BNIA 1/4 Ly Post Closure Monitoring		Lab Contact: Jill Colussy		Lab Quote No:		Cooler No:	
Project Location: Buffalo Airport		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier:	
Chemistry Contact: S. Gardner D. Tyrn		SAMPLE TYPE		Total Containers/Sample		Airbill No:	
Sampler(s):		Matrix Code (see back of COC)		Other:		Date Shipped: 9.10.15	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		Grab (G) or Comp (C)		Encores 3x5-g; 1x25-g		COMMENTS/ SPECIAL INSTRUCTIONS:	
Item	DATE (mm/dd/yyyy)	TIME (hh:mm)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide
1	9-10-15	0845	WG G	X	X		
2	9-10-15	0825	WG G	X	X		
3	9-10-15	0950	WG G	X	X		
4	9-10-15	0940	WG G	X	X		
5	9-10-15	1100	WG G	X	X		
6	9-10-15	1100	WG G	X	X		
7	9-10-15	1235	WG G	X	X		
8	9-10-15	1145	WG G	X	X		
9	9-10-15	1235	WG G	X	X		
10	9-10-15	1245	WG G	X	X		
11	9-10-15		WG G	X	X		
12	9-10-15		TB G	X			
13							
14							
15							



180-47663 Chain of Custody

Total Number of Containers: **54**

All Samples in Cooler must be on COC

TAT Required in business days (use separate COCs for different TATs):

1 Day 2 Days 3 Days 1 Week 2 Week Other: **Standard**

RELINQUISHED BY	COMPANY	DATE	RECEIVED BY	COMPANY	DATE	TIME
<i>[Signature]</i>	GHD	9.10.15	<i>[Signature]</i>	JAF	9-11-15	9:30

Login Sample Receipt Checklist

Client: Brausch Environmental LLC

Job Number: 180-47663-1

Login Number: 47663

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-50648-1

Client Project/Site: Buffalo Airport

Revision: 1

For:

Brausch Environmental LLC

5318 Alexa Road

Charlotte, North Carolina 28277

Attn: Leo Brausch



Authorized for release by:

11/8/2016 3:56:56 PM

Jennifer Rumble, Analyst I

jennifer.rumble@testamericainc.com

Designee for

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

LINKS

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www.testamericainc.com

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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Case Narrative

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Job ID: 180-50648-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-50648-1 REV1

Note

The client added an analyte to method 624 after the report went out. A revised report (Rev1) was created.

Receipt

The samples were received on 12/11/2015 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

The chain of custody did not list a sampling time for the TRIP BLANK. The earliest sample time was logged in.

GC/MS VOA

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

Metals

Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: WG-18036-121015-SG-006 (180-50648-7), WG-18036-121015-SG-008 (180-50648-9) and WG-18036-121015-SG-011 (180-50648-12). All analytes referencing the indium internal standard required dilution due to the indium counts being low and outside the 70%-130% control limits.

Definitions/Glossary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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)

Certification Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-17

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Sample Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-50648-1	TB-18036-121015-DT	Water	12/10/15 08:30	12/11/15 08:50
180-50648-2	WG-18036-121015-DT-001	Water	12/10/15 08:45	12/11/15 08:50
180-50648-3	WG-18036-121015-SG-002	Water	12/10/15 08:30	12/11/15 08:50
180-50648-4	WG-18036-121015-DT-003	Water	12/10/15 09:30	12/11/15 08:50
180-50648-5	WG-18036-121015-SG-004	Water	12/10/15 09:30	12/11/15 08:50
180-50648-6	WG-18036-121015-DT-005	Water	12/10/15 10:25	12/11/15 08:50
180-50648-7	WG-18036-121015-SG-006	Water	12/10/15 10:40	12/11/15 08:50
180-50648-8	WG-18036-121015-DT-007	Water	12/10/15 11:50	12/11/15 08:50
180-50648-9	WG-18036-121015-SG-008	Water	12/10/15 11:35	12/11/15 08:50
180-50648-10	WG-18036-121015-DT-009	Water	12/10/15 11:50	12/11/15 08:50
180-50648-11	WG-18036-121015-SG-010	Water	12/10/15 13:00	12/11/15 08:50
180-50648-12	WG-18036-121015-SG-011	Water	12/10/15 13:55	12/11/15 08:50

Method Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: TB-18036-121015-DT
Date Collected: 12/10/15 08:30
Date Received: 12/11/15 08:50

Lab Sample ID: 180-50648-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 19:41	DLF	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: WG-18036-121015-DT-001
Date Collected: 12/10/15 08:45
Date Received: 12/11/15 08:50

Lab Sample ID: 180-50648-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 20:05	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 14:43	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-SG-002
Date Collected: 12/10/15 08:30
Date Received: 12/11/15 08:50

Lab Sample ID: 180-50648-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 20:29	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 14:48	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-DT-003
Date Collected: 12/10/15 09:30
Date Received: 12/11/15 08:50

Lab Sample ID: 180-50648-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 20:53	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 14:54	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-SG-004
Date Collected: 12/10/15 09:30
Date Received: 12/11/15 08:50

Lab Sample ID: 180-50648-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 21:18	DLF	TAL PIT
Instrument ID: CHHP6										

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-004

Lab Sample ID: 180-50648-5

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 14:59	RJG	TAL PIT
		Instrument ID: Q								

Client Sample ID: WG-18036-121015-DT-005

Lab Sample ID: 180-50648-6

Date Collected: 12/10/15 10:25

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 21:42	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 15:20	RJG	TAL PIT
		Instrument ID: Q								

Client Sample ID: WG-18036-121015-SG-006

Lab Sample ID: 180-50648-7

Date Collected: 12/10/15 10:40

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 22:31	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 15:36	RJG	TAL PIT
		Instrument ID: Q								
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			164193	12/18/15 10:21	RJG	TAL PIT
		Instrument ID: Q								

Client Sample ID: WG-18036-121015-DT-007

Lab Sample ID: 180-50648-8

Date Collected: 12/10/15 11:50

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 22:55	DLF	TAL PIT
		Instrument ID: CHHP6								
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 15:42	RJG	TAL PIT
		Instrument ID: Q								

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-008

Lab Sample ID: 180-50648-9

Date Collected: 12/10/15 11:35

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 23:19	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 15:47	RJG	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			164193	12/18/15 10:32	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-DT-009

Lab Sample ID: 180-50648-10

Date Collected: 12/10/15 11:50

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/14/15 23:43	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 15:53	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-SG-010

Lab Sample ID: 180-50648-11

Date Collected: 12/10/15 13:00

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/15/15 00:07	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 15:58	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-121015-SG-011

Lab Sample ID: 180-50648-12

Date Collected: 12/10/15 13:55

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	163430	12/15/15 00:32	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			163677	12/15/15 16:19	RJG	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	163540	12/15/15 05:33	RJR	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-011

Lab Sample ID: 180-50648-12

Date Collected: 12/10/15 13:55

Matrix: Water

Date Received: 12/11/15 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	200.7 Rev 4.4		2			164193	12/18/15 10:38	RJG	TAL PIT
Instrument ID: Q										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

RJG = Rob Good

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: TB-18036-121015-DT

Lab Sample ID: 180-50648-1

Date Collected: 12/10/15 08:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 19:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 19:41	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 19:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/14/15 19:41	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 19:41	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 135		12/14/15 19:41	1
4-Bromofluorobenzene (Surr)	95		62 - 123		12/14/15 19:41	1
Dibromofluoromethane (Surr)	102		64 - 128		12/14/15 19:41	1
Toluene-d8 (Surr)	96		71 - 118		12/14/15 19:41	1

Client Sample ID: WG-18036-121015-DT-001

Lab Sample ID: 180-50648-2

Date Collected: 12/10/15 08:45

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 20:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 20:05	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 20:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/14/15 20:05	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 20:05	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 135		12/14/15 20:05	1
4-Bromofluorobenzene (Surr)	91		62 - 123		12/14/15 20:05	1
Dibromofluoromethane (Surr)	105		64 - 128		12/14/15 20:05	1
Toluene-d8 (Surr)	94		71 - 118		12/14/15 20:05	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:43	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:43	1

Client Sample ID: WG-18036-121015-SG-002

Lab Sample ID: 180-50648-3

Date Collected: 12/10/15 08:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 20:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 20:29	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 20:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/14/15 20:29	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 20:29	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 20:29	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-002

Lab Sample ID: 180-50648-3

Date Collected: 12/10/15 08:30

Matrix: Water

Date Received: 12/11/15 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		58 - 135		12/14/15 20:29	1
4-Bromofluorobenzene (Surr)	92		62 - 123		12/14/15 20:29	1
Dibromofluoromethane (Surr)	104		64 - 128		12/14/15 20:29	1
Toluene-d8 (Surr)	97		71 - 118		12/14/15 20:29	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:48	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:48	1

Client Sample ID: WG-18036-121015-DT-003

Lab Sample ID: 180-50648-4

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 20:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 20:53	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 20:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/14/15 20:53	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 20:53	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 135		12/14/15 20:53	1
4-Bromofluorobenzene (Surr)	91		62 - 123		12/14/15 20:53	1
Dibromofluoromethane (Surr)	104		64 - 128		12/14/15 20:53	1
Toluene-d8 (Surr)	96		71 - 118		12/14/15 20:53	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:54	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:54	1

Client Sample ID: WG-18036-121015-SG-004

Lab Sample ID: 180-50648-5

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 21:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 21:18	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 21:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/14/15 21:18	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 21:18	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/14/15 21:18	1
4-Bromofluorobenzene (Surr)	95		62 - 123		12/14/15 21:18	1
Dibromofluoromethane (Surr)	106		64 - 128		12/14/15 21:18	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-004

Lab Sample ID: 180-50648-5

Date Collected: 12/10/15 09:30

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		71 - 118		12/14/15 21:18	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:59	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:59	1

Client Sample ID: WG-18036-121015-DT-005

Lab Sample ID: 180-50648-6

Date Collected: 12/10/15 10:25

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 21:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 21:42	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 21:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/14/15 21:42	1
Trichloroethene	0.18	J	1.0	0.14	ug/L			12/14/15 21:42	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		58 - 135		12/14/15 21:42	1
4-Bromofluorobenzene (Surr)	90		62 - 123		12/14/15 21:42	1
Dibromofluoromethane (Surr)	109		64 - 128		12/14/15 21:42	1
Toluene-d8 (Surr)	92		71 - 118		12/14/15 21:42	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:20	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 15:20	1

Client Sample ID: WG-18036-121015-SG-006

Lab Sample ID: 180-50648-7

Date Collected: 12/10/15 10:40

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 22:31	1
cis-1,2-Dichloroethene	0.75	J	1.0	0.24	ug/L			12/14/15 22:31	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 22:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/14/15 22:31	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 22:31	1
Vinyl chloride	0.76	J	1.0	0.23	ug/L			12/14/15 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135		12/14/15 22:31	1
4-Bromofluorobenzene (Surr)	92		62 - 123		12/14/15 22:31	1
Dibromofluoromethane (Surr)	105		64 - 128		12/14/15 22:31	1
Toluene-d8 (Surr)	95		71 - 118		12/14/15 22:31	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-006

Lab Sample ID: 180-50648-7

Date Collected: 12/10/15 10:40

Matrix: Water

Date Received: 12/11/15 08:50

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:36	1
Lead	20	U	20	4.0	ug/L		12/15/15 05:33	12/18/15 10:21	2

Client Sample ID: WG-18036-121015-DT-007

Lab Sample ID: 180-50648-8

Date Collected: 12/10/15 11:50

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 22:55	1
cis-1,2-Dichloroethene	4.5		1.0	0.24	ug/L			12/14/15 22:55	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 22:55	1
trans-1,2-Dichloroethene	1.1		1.0	0.17	ug/L			12/14/15 22:55	1
Trichloroethene	0.49	J	1.0	0.14	ug/L			12/14/15 22:55	1
Vinyl chloride	4.3		1.0	0.23	ug/L			12/14/15 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 135					12/14/15 22:55	1
4-Bromofluorobenzene (Surr)	90		62 - 123					12/14/15 22:55	1
Dibromofluoromethane (Surr)	102		64 - 128					12/14/15 22:55	1
Toluene-d8 (Surr)	93		71 - 118					12/14/15 22:55	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:42	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 15:42	1

Client Sample ID: WG-18036-121015-SG-008

Lab Sample ID: 180-50648-9

Date Collected: 12/10/15 11:35

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 23:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 23:19	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 23:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/14/15 23:19	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 23:19	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 23:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135					12/14/15 23:19	1
4-Bromofluorobenzene (Surr)	100		62 - 123					12/14/15 23:19	1
Dibromofluoromethane (Surr)	107		64 - 128					12/14/15 23:19	1
Toluene-d8 (Surr)	101		71 - 118					12/14/15 23:19	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:47	1
Lead	5.3	J	20	4.0	ug/L		12/15/15 05:33	12/18/15 10:32	2

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-DT-009

Lab Sample ID: 180-50648-10

Date Collected: 12/10/15 11:50

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 23:43	1
cis-1,2-Dichloroethene	4.6		1.0	0.24	ug/L			12/14/15 23:43	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 23:43	1
trans-1,2-Dichloroethene	0.99	J	1.0	0.17	ug/L			12/14/15 23:43	1
Trichloroethene	0.49	J	1.0	0.14	ug/L			12/14/15 23:43	1
Vinyl chloride	4.1		1.0	0.23	ug/L			12/14/15 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/14/15 23:43	1
4-Bromofluorobenzene (Surr)	93		62 - 123		12/14/15 23:43	1
Dibromofluoromethane (Surr)	108		64 - 128		12/14/15 23:43	1
Toluene-d8 (Surr)	95		71 - 118		12/14/15 23:43	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:53	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 15:53	1

Client Sample ID: WG-18036-121015-SG-010

Lab Sample ID: 180-50648-11

Date Collected: 12/10/15 13:00

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/15/15 00:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/15/15 00:07	1
Toluene	1.0	U	1.0	0.15	ug/L			12/15/15 00:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/15/15 00:07	1
Trichloroethene	1.3		1.0	0.14	ug/L			12/15/15 00:07	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/15/15 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		12/15/15 00:07	1
4-Bromofluorobenzene (Surr)	94		62 - 123		12/15/15 00:07	1
Dibromofluoromethane (Surr)	107		64 - 128		12/15/15 00:07	1
Toluene-d8 (Surr)	95		71 - 118		12/15/15 00:07	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 15:58	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 15:58	1

Client Sample ID: WG-18036-121015-SG-011

Lab Sample ID: 180-50648-12

Date Collected: 12/10/15 13:55

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/15/15 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/15/15 00:32	1
Toluene	1.0	U	1.0	0.15	ug/L			12/15/15 00:32	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Client Sample ID: WG-18036-121015-SG-011

Lab Sample ID: 180-50648-12

Date Collected: 12/10/15 13:55

Matrix: Water

Date Received: 12/11/15 08:50

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/15/15 00:32	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/15/15 00:32	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/15/15 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		58 - 135		12/15/15 00:32	1
4-Bromofluorobenzene (Surr)	90		62 - 123		12/15/15 00:32	1
Dibromofluoromethane (Surr)	112		64 - 128		12/15/15 00:32	1
Toluene-d8 (Surr)	94		71 - 118		12/15/15 00:32	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 16:19	1
Lead	20	U	20	4.0	ug/L		12/15/15 05:33	12/18/15 10:38	2

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-163430/7

Matrix: Water

Analysis Batch: 163430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			12/14/15 14:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			12/14/15 14:25	1
Toluene	1.0	U	1.0	0.15	ug/L			12/14/15 14:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			12/14/15 14:25	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			12/14/15 14:25	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			12/14/15 14:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135		12/14/15 14:25	1
4-Bromofluorobenzene (Surr)	93		62 - 123		12/14/15 14:25	1
Dibromofluoromethane (Surr)	105		64 - 128		12/14/15 14:25	1
Toluene-d8 (Surr)	94		71 - 118		12/14/15 14:25	1

Lab Sample ID: LCS 180-163430/1003

Matrix: Water

Analysis Batch: 163430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.5		ug/L		105	75 - 125
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	69 - 127
Toluene	10.0	9.67		ug/L		97	74 - 126
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	69 - 131
Trichloroethene	10.0	11.0		ug/L		110	73 - 125
Vinyl chloride	10.0	9.25		ug/L		92	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 135
4-Bromofluorobenzene (Surr)	97		62 - 123
Dibromofluoromethane (Surr)	101		64 - 128
Toluene-d8 (Surr)	95		71 - 118

Lab Sample ID: 180-50648-5 MS

Matrix: Water

Analysis Batch: 163430

Client Sample ID: WG-18036-121015-SG-004

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	10.5		ug/L		105	75 - 125
cis-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	69 - 127
Toluene	1.0	U	10.0	9.40		ug/L		94	74 - 126
trans-1,2-Dichloroethene	1.0	U	10.0	11.3		ug/L		113	69 - 131
Trichloroethene	1.0	U	10.0	10.9		ug/L		109	73 - 125
Vinyl chloride	1.0	U	10.0	9.34		ug/L		93	30 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		58 - 135
4-Bromofluorobenzene (Surr)	92		62 - 123
Dibromofluoromethane (Surr)	100		64 - 128

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-50648-5 MS
Matrix: Water
Analysis Batch: 163430

Client Sample ID: WG-18036-121015-SG-004
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	93		71 - 118

Lab Sample ID: 180-50648-5 MSD
Matrix: Water
Analysis Batch: 163430

Client Sample ID: WG-18036-121015-SG-004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	10.0	11.3		ug/L		113	75 - 125	7	25
cis-1,2-Dichloroethene	1.0	U	10.0	11.3		ug/L		113	69 - 127	10	20
Toluene	1.0	U	10.0	9.78		ug/L		98	74 - 126	4	25
trans-1,2-Dichloroethene	1.0	U	10.0	12.0		ug/L		120	69 - 131	6	25
Trichloroethene	1.0	U	10.0	12.0		ug/L		120	73 - 125	10	25
Vinyl chloride	1.0	U	10.0	9.61		ug/L		96	30 - 140	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		58 - 135
4-Bromofluorobenzene (Surr)	97		62 - 123
Dibromofluoromethane (Surr)	107		64 - 128
Toluene-d8 (Surr)	97		71 - 118

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-163540/1-A
Matrix: Water
Analysis Batch: 163677

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		12/15/15 05:33	12/15/15 14:33	1
Lead	10	U	10	2.0	ug/L		12/15/15 05:33	12/15/15 14:33	1

Lab Sample ID: LCS 180-163540/2-A
Matrix: Water
Analysis Batch: 163677

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	50.7		ug/L		101	85 - 115
Lead	500	517		ug/L		103	85 - 115

Lab Sample ID: 180-50648-5 MS
Matrix: Water
Analysis Batch: 163677

Client Sample ID: WG-18036-121015-SG-004
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	5.0	U	50.0	49.0		ug/L		98	70 - 130
Lead	10	U	500	504		ug/L		101	70 - 130

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-50648-5 MSD
Matrix: Water
Analysis Batch: 163677

Client Sample ID: WG-18036-121015-SG-004
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Cadmium	5.0	U	50.0	48.7		ug/L		97		70 - 130	1	20
Lead	10	U	500	501		ug/L		100		70 - 130	1	20

Lab Sample ID: 180-50648-11 MS
Matrix: Water
Analysis Batch: 163677

Client Sample ID: WG-18036-121015-SG-010
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Cadmium	5.0	U	50.0	48.3		ug/L		97		70 - 130		
Lead	10	U	500	502		ug/L		100		70 - 130		

Lab Sample ID: 180-50648-11 MSD
Matrix: Water
Analysis Batch: 163677

Client Sample ID: WG-18036-121015-SG-010
Prep Type: Total Recoverable
Prep Batch: 163540

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Cadmium	5.0	U	50.0	48.0		ug/L		96		70 - 130	1	20
Lead	10	U	500	495		ug/L		99		70 - 130	1	20

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

GC/MS VOA

Analysis Batch: 163430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-1	TB-18036-121015-DT	Total/NA	Water	624	
180-50648-2	WG-18036-121015-DT-001	Total/NA	Water	624	
180-50648-3	WG-18036-121015-SG-002	Total/NA	Water	624	
180-50648-4	WG-18036-121015-DT-003	Total/NA	Water	624	
180-50648-5	WG-18036-121015-SG-004	Total/NA	Water	624	
180-50648-6	WG-18036-121015-DT-005	Total/NA	Water	624	
180-50648-7	WG-18036-121015-SG-006	Total/NA	Water	624	
180-50648-8	WG-18036-121015-DT-007	Total/NA	Water	624	
180-50648-9	WG-18036-121015-SG-008	Total/NA	Water	624	
180-50648-10	WG-18036-121015-DT-009	Total/NA	Water	624	
180-50648-11	WG-18036-121015-SG-010	Total/NA	Water	624	
180-50648-12	WG-18036-121015-SG-011	Total/NA	Water	624	
MB 180-163430/7	Method Blank	Total/NA	Water	624	
LCS 180-163430/1003	Lab Control Sample	Total/NA	Water	624	
180-50648-5 MS	WG-18036-121015-SG-004	Total/NA	Water	624	
180-50648-5 MSD	WG-18036-121015-SG-004	Total/NA	Water	624	

Metals

Prep Batch: 163540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-2	WG-18036-121015-DT-001	Total Recoverable	Water	200.7	
180-50648-3	WG-18036-121015-SG-002	Total Recoverable	Water	200.7	
180-50648-4	WG-18036-121015-DT-003	Total Recoverable	Water	200.7	
180-50648-5	WG-18036-121015-SG-004	Total Recoverable	Water	200.7	
180-50648-6	WG-18036-121015-DT-005	Total Recoverable	Water	200.7	
180-50648-7	WG-18036-121015-SG-006	Total Recoverable	Water	200.7	
180-50648-8	WG-18036-121015-DT-007	Total Recoverable	Water	200.7	
180-50648-9	WG-18036-121015-SG-008	Total Recoverable	Water	200.7	
180-50648-10	WG-18036-121015-DT-009	Total Recoverable	Water	200.7	
180-50648-11	WG-18036-121015-SG-010	Total Recoverable	Water	200.7	
180-50648-12	WG-18036-121015-SG-011	Total Recoverable	Water	200.7	
MB 180-163540/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-163540/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
180-50648-5 MS	WG-18036-121015-SG-004	Total Recoverable	Water	200.7	
180-50648-5 MSD	WG-18036-121015-SG-004	Total Recoverable	Water	200.7	
180-50648-11 MS	WG-18036-121015-SG-010	Total Recoverable	Water	200.7	
180-50648-11 MSD	WG-18036-121015-SG-010	Total Recoverable	Water	200.7	

Analysis Batch: 163677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-2	WG-18036-121015-DT-001	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-3	WG-18036-121015-SG-002	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-4	WG-18036-121015-DT-003	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-5	WG-18036-121015-SG-004	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-6	WG-18036-121015-DT-005	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-7	WG-18036-121015-SG-006	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-8	WG-18036-121015-DT-007	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-9	WG-18036-121015-SG-008	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-10	WG-18036-121015-DT-009	Total Recoverable	Water	200.7 Rev 4.4	163540

TestAmerica Pittsburgh

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-50648-1

Metals (Continued)

Analysis Batch: 163677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-11	WG-18036-121015-SG-010	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-12	WG-18036-121015-SG-011	Total Recoverable	Water	200.7 Rev 4.4	163540
MB 180-163540/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	163540
LCS 180-163540/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-5 MS	WG-18036-121015-SG-004	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-5 MSD	WG-18036-121015-SG-004	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-11 MS	WG-18036-121015-SG-010	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-11 MSD	WG-18036-121015-SG-010	Total Recoverable	Water	200.7 Rev 4.4	163540

Analysis Batch: 164193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-50648-7	WG-18036-121015-SG-006	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-9	WG-18036-121015-SG-008	Total Recoverable	Water	200.7 Rev 4.4	163540
180-50648-12	WG-18036-121015-SG-011	Total Recoverable	Water	200.7 Rev 4.4	163540

Project No/Phase/Task Code: **18036-2014**
 Project Name: **BNA - Post Closure Monitoring**
 Project Location: **Buffalo Airport**
 Chemistry Contact: **S. Gardner D. Tyrin**
 Laboratory Name: **Test America**
 Lab Contact: **Jill Colussy**
 Lab Location: **Pittsburgh**
 Lab Quote No: _____
 SSOW ID: _____
 Cooler No: _____
 Carrier: _____
 Airbill No: _____

Item	SAMPLER IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (month/day/yr)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	Encores 3x5-g, 1x25-g	Other:	Total Containers/Sample	ANALYSIS REQUESTED (See Back of COC for Definitions)	MS/MSD Request	Carrier	Airbill No:	Date Shipped: 12.10.15	COMMENTS/SPECIAL INSTRUCTIONS
1	TB-18036-121015-DT	12/10/15		TB	G		X							2						
2	WG-18036-121015-DT-001	12/10/15	0845	WG	G		X	X						4						
3	WG-18036-121015-SG-002	12/10/15	0830	WG	G		X	X						4						
4	WG-18036-121015-DT-003	12/10/15	0930	WG	G		X	X						4						
5	WG-18036-121015-SG-004	12/10/15	0930	WG	G		X	X						12						
6	WG-18036-121015-DT-005	12/10/15	1025	WG	G		X	X						4						
7	WG-18036-121015-SG-006	12/10/15	1040	WG	G		X	X						4						
8	WG-18036-121015-DT-007	12/10/15	1150	WG	G		X	X						4						
9	WG-18036-121015-SG-008	12/10/15	1135	WG	G		X	X						4						
10	WG-18036-121015-DT-009	12/10/15	1150	WG	G		X	X						4						
11	WG-18036-121015-SG-010	12/10/15	1300	WG	G		X	X						4						
12	WG-18036-121015-SG-011	12/10/15	1355	WG	G		X	X						4						
13																				
14																				
15																				

TAT Required in business days (use separate COCs for different TATs):
 1 Day 2 Days 3 Days 1 Week 2 Week Other:

Total Number of Containers: **54** Notes/Special Requirements:
 All Samples in Cooler must be on COC

REQUISITIONED BY	COMPANY	DATE	RECEIVED BY	COMPANY	DATE	TIME
Dave Tyrin	GMD	12/10/15	Debra Weston	TA	12-15-15	8:50

Login Sample Receipt Checklist

Client: Brausch Environmental LLC

Job Number: 180-50648-1

Login Number: 50648

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-53149-1
Client Project/Site: Buffalo Airport
Revision: 1

For:
Brausch Environmental LLC
5318 Alexa Road
Charlotte, North Carolina 28277

Attn: Leo Brausch



Authorized for release by:
11/8/2016 4:02:23 PM
Jennifer Rumble, Analyst I
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Designee for
Jill Colussy, Project Manager I
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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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Case Narrative

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Job ID: 180-53149-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-53149-1 REV1

Note

The client added an analyte to method 624 after the report went out. A revised report (Rev1) was created.

Receipt

The samples were received on 3/18/2016 2:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0° C.

The chain of custody did not list a sampling time for the TRIP BLANK. The earliest sample time was logged in.

GC/MS VOA

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

Metals

Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: WG-18036-031716-008-SG (180-53149-8), WG-18036-031716-010-SG (180-53149-10), WG-18036-031716-011-SG (180-53149-11). All analytes referencing the indium internal standards required dilution due to the indium counts being low and outside the 70%-130% control limits.

Definitions/Glossary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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)

Certification Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-17

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Sample Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-53149-1	WG-18036-031716-DT-001	Water	03/17/16 08:40	03/18/16 14:15
180-53149-2	WG-18036-031716-002-SG	Water	03/17/16 08:15	03/18/16 14:15
180-53149-3	WG-18036-031716-DT-003	Water	03/17/16 09:35	03/18/16 14:15
180-53149-4	WG-18036-031716-004-SG	Water	03/17/16 08:55	03/18/16 14:15
180-53149-5	WG-18036-031716-DT-005	Water	03/17/16 10:25	03/18/16 14:15
180-53149-6	WG-18036-031716-006-SG	Water	03/17/16 08:55	03/18/16 14:15
180-53149-7	WG-18036-031716-DT-007	Water	03/17/16 11:30	03/18/16 14:15
180-53149-8	WG-18036-031716-008-SG	Water	03/17/16 10:45	03/18/16 14:15
180-53149-9	WG-18036-031716-009-SG	Water	03/17/16 12:35	03/18/16 14:15
180-53149-10	WG-18036-031716-010-SG	Water	03/17/16 11:35	03/18/16 14:15
180-53149-11	WG-18036-031716-011-SG	Water	03/17/16 13:35	03/18/16 14:15
180-53149-12	TB-18036-031716-DT	Water	03/17/16 08:15	03/18/16 14:15

Method Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Client Sample ID: WG-18036-031716-DT-001

Lab Sample ID: 180-53149-1

Date Collected: 03/17/16 08:40

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 16:19	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 17:23	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-031716-002-SG

Lab Sample ID: 180-53149-2

Date Collected: 03/17/16 08:15

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 16:43	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 17:28	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-031716-DT-003

Lab Sample ID: 180-53149-3

Date Collected: 03/17/16 09:35

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 17:07	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 17:33	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-031716-004-SG

Lab Sample ID: 180-53149-4

Date Collected: 03/17/16 08:55

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 17:31	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 17:38	RJG	TAL PIT
Instrument ID: C										

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Client Sample ID: WG-18036-031716-DT-005

Lab Sample ID: 180-53149-5

Date Collected: 03/17/16 10:25

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 18:20	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 17:43	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-031716-006-SG

Lab Sample ID: 180-53149-6

Date Collected: 03/17/16 08:55

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 18:44	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 17:48	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-031716-DT-007

Lab Sample ID: 180-53149-7

Date Collected: 03/17/16 11:30

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 12:28	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 17:54	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-031716-008-SG

Lab Sample ID: 180-53149-8

Date Collected: 03/17/16 10:45

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 19:08	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 18:24	RJG	TAL PIT
Instrument ID: C										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			171840	03/25/16 11:36	RJG	TAL PIT
Instrument ID: C										

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Client Sample ID: WG-18036-031716-009-SG

Lab Sample ID: 180-53149-9

Date Collected: 03/17/16 12:35

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 19:32	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 18:30	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-031716-010-SG

Lab Sample ID: 180-53149-10

Date Collected: 03/17/16 11:35

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 19:56	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 18:35	RJG	TAL PIT
Instrument ID: C										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			171840	03/25/16 11:41	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: WG-18036-031716-011-SG

Lab Sample ID: 180-53149-11

Date Collected: 03/17/16 13:35

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 20:20	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			171626	03/23/16 18:40	RJG	TAL PIT
Instrument ID: C										
Total Recoverable	Prep	200.7			50 mL	50 mL	171312	03/21/16 07:28	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			171840	03/25/16 11:47	RJG	TAL PIT
Instrument ID: C										

Client Sample ID: TB-18036-031716-DT

Lab Sample ID: 180-53149-12

Date Collected: 03/17/16 08:15

Matrix: Water

Date Received: 03/18/16 14:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	171549	03/23/16 12:52	DLF	TAL PIT
Instrument ID: CHHP5										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

ANA = Alexis Anderson

Batch Type: Analysis

DLF = Donald Ferguson

RJG = Rob Good

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Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Client Sample ID: WG-18036-031716-DT-001

Lab Sample ID: 180-53149-1

Date Collected: 03/17/16 08:40

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 16:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 16:19	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 16:19	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 16:19	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 16:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 135		03/23/16 16:19	1
4-Bromofluorobenzene (Surr)	93		62 - 123		03/23/16 16:19	1
Dibromofluoromethane (Surr)	104		64 - 128		03/23/16 16:19	1
Toluene-d8 (Surr)	104		71 - 118		03/23/16 16:19	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 17:23	1
Lead	10	U	10	2.0	ug/L		03/21/16 07:28	03/23/16 17:23	1

Client Sample ID: WG-18036-031716-002-SG

Lab Sample ID: 180-53149-2

Date Collected: 03/17/16 08:15

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 16:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 16:43	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 16:43	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 16:43	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 16:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135		03/23/16 16:43	1
4-Bromofluorobenzene (Surr)	87		62 - 123		03/23/16 16:43	1
Dibromofluoromethane (Surr)	103		64 - 128		03/23/16 16:43	1
Toluene-d8 (Surr)	100		71 - 118		03/23/16 16:43	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 17:28	1
Lead	10	U	10	2.0	ug/L		03/21/16 07:28	03/23/16 17:28	1

Client Sample ID: WG-18036-031716-DT-003

Lab Sample ID: 180-53149-3

Date Collected: 03/17/16 09:35

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 17:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 17:07	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 17:07	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Client Sample ID: WG-18036-031716-DT-003

Lab Sample ID: 180-53149-3

Date Collected: 03/17/16 09:35

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 17:07	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 17:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 135					03/23/16 17:07	1
4-Bromofluorobenzene (Surr)	82		62 - 123					03/23/16 17:07	1
Dibromofluoromethane (Surr)	104		64 - 128					03/23/16 17:07	1
Toluene-d8 (Surr)	96		71 - 118					03/23/16 17:07	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 17:33	1
Lead	10	U	10	2.0	ug/L		03/21/16 07:28	03/23/16 17:33	1

Client Sample ID: WG-18036-031716-004-SG

Lab Sample ID: 180-53149-4

Date Collected: 03/17/16 08:55

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 17:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 17:31	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 17:31	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 17:31	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 17:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 135					03/23/16 17:31	1
4-Bromofluorobenzene (Surr)	89		62 - 123					03/23/16 17:31	1
Dibromofluoromethane (Surr)	104		64 - 128					03/23/16 17:31	1
Toluene-d8 (Surr)	103		71 - 118					03/23/16 17:31	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 17:38	1
Lead	10	U	10	2.0	ug/L		03/21/16 07:28	03/23/16 17:38	1

Client Sample ID: WG-18036-031716-DT-005

Lab Sample ID: 180-53149-5

Date Collected: 03/17/16 10:25

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 18:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 18:20	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 18:20	1
Trichloroethene	0.20	J	1.0	0.14	ug/L			03/23/16 18:20	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 18:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 18:20	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Client Sample ID: WG-18036-031716-DT-005

Lab Sample ID: 180-53149-5

Date Collected: 03/17/16 10:25

Matrix: Water

Date Received: 03/18/16 14:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135		03/23/16 18:20	1
4-Bromofluorobenzene (Surr)	88		62 - 123		03/23/16 18:20	1
Dibromofluoromethane (Surr)	106		64 - 128		03/23/16 18:20	1
Toluene-d8 (Surr)	103		71 - 118		03/23/16 18:20	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 17:43	1
Lead	10	U	10	2.0	ug/L		03/21/16 07:28	03/23/16 17:43	1

Client Sample ID: WG-18036-031716-006-SG

Lab Sample ID: 180-53149-6

Date Collected: 03/17/16 08:55

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 18:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 18:44	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 18:44	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 18:44	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 18:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135		03/23/16 18:44	1
4-Bromofluorobenzene (Surr)	93		62 - 123		03/23/16 18:44	1
Dibromofluoromethane (Surr)	103		64 - 128		03/23/16 18:44	1
Toluene-d8 (Surr)	103		71 - 118		03/23/16 18:44	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 17:48	1
Lead	10	U	10	2.0	ug/L		03/21/16 07:28	03/23/16 17:48	1

Client Sample ID: WG-18036-031716-DT-007

Lab Sample ID: 180-53149-7

Date Collected: 03/17/16 11:30

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 12:28	1
cis-1,2-Dichloroethene	3.5		1.0	0.24	ug/L			03/23/16 12:28	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 12:28	1
Trichloroethene	0.30	J	1.0	0.14	ug/L			03/23/16 12:28	1
Vinyl chloride	5.6		1.0	0.23	ug/L			03/23/16 12:28	1
trans-1,2-Dichloroethene	0.25	J	1.0	0.17	ug/L			03/23/16 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 135		03/23/16 12:28	1
4-Bromofluorobenzene (Surr)	83		62 - 123		03/23/16 12:28	1
Dibromofluoromethane (Surr)	102		64 - 128		03/23/16 12:28	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Client Sample ID: WG-18036-031716-DT-007

Lab Sample ID: 180-53149-7

Date Collected: 03/17/16 11:30

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 118		03/23/16 12:28	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 17:54	1
Lead	10	U	10	2.0	ug/L		03/21/16 07:28	03/23/16 17:54	1

Client Sample ID: WG-18036-031716-008-SG

Lab Sample ID: 180-53149-8

Date Collected: 03/17/16 10:45

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 19:08	1
cis-1,2-Dichloroethene	0.32	J	1.0	0.24	ug/L			03/23/16 19:08	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 19:08	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 19:08	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 19:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 135		03/23/16 19:08	1
4-Bromofluorobenzene (Surr)	93		62 - 123		03/23/16 19:08	1
Dibromofluoromethane (Surr)	104		64 - 128		03/23/16 19:08	1
Toluene-d8 (Surr)	103		71 - 118		03/23/16 19:08	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.27	J	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 18:24	1
Lead	20	U	20	4.0	ug/L		03/21/16 07:28	03/25/16 11:36	2

Client Sample ID: WG-18036-031716-009-SG

Lab Sample ID: 180-53149-9

Date Collected: 03/17/16 12:35

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 19:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 19:32	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 19:32	1
Trichloroethene	1.1		1.0	0.14	ug/L			03/23/16 19:32	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 19:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 135		03/23/16 19:32	1
4-Bromofluorobenzene (Surr)	91		62 - 123		03/23/16 19:32	1
Dibromofluoromethane (Surr)	105		64 - 128		03/23/16 19:32	1
Toluene-d8 (Surr)	103		71 - 118		03/23/16 19:32	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Client Sample ID: WG-18036-031716-009-SG

Lab Sample ID: 180-53149-9

Date Collected: 03/17/16 12:35

Matrix: Water

Date Received: 03/18/16 14:15

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 18:30	1
Lead	10	U	10	2.0	ug/L		03/21/16 07:28	03/23/16 18:30	1

Client Sample ID: WG-18036-031716-010-SG

Lab Sample ID: 180-53149-10

Date Collected: 03/17/16 11:35

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 19:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 19:56	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 19:56	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 19:56	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 19:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 135		03/23/16 19:56	1
4-Bromofluorobenzene (Surr)	91		62 - 123		03/23/16 19:56	1
Dibromofluoromethane (Surr)	101		64 - 128		03/23/16 19:56	1
Toluene-d8 (Surr)	101		71 - 118		03/23/16 19:56	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 18:35	1
Lead	4.8	J	20	4.0	ug/L		03/21/16 07:28	03/25/16 11:41	2

Client Sample ID: WG-18036-031716-011-SG

Lab Sample ID: 180-53149-11

Date Collected: 03/17/16 13:35

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 20:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 20:20	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 20:20	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 20:20	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 20:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 135		03/23/16 20:20	1
4-Bromofluorobenzene (Surr)	93		62 - 123		03/23/16 20:20	1
Dibromofluoromethane (Surr)	109		64 - 128		03/23/16 20:20	1
Toluene-d8 (Surr)	103		71 - 118		03/23/16 20:20	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 18:40	1
Lead	20	U	20	4.0	ug/L		03/21/16 07:28	03/25/16 11:47	2

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Client Sample ID: TB-18036-031716-DT

Lab Sample ID: 180-53149-12

Date Collected: 03/17/16 08:15

Matrix: Water

Date Received: 03/18/16 14:15

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 12:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 12:52	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 12:52	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 12:52	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 12:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 135		03/23/16 12:52	1
4-Bromofluorobenzene (Surr)	90		62 - 123		03/23/16 12:52	1
Dibromofluoromethane (Surr)	102		64 - 128		03/23/16 12:52	1
Toluene-d8 (Surr)	100		71 - 118		03/23/16 12:52	1



QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-171549/6

Matrix: Water

Analysis Batch: 171549

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/23/16 11:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/23/16 11:49	1
Toluene	1.0	U	1.0	0.15	ug/L			03/23/16 11:49	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/23/16 11:49	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/23/16 11:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/23/16 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		58 - 135		03/23/16 11:49	1
4-Bromofluorobenzene (Surr)	85		62 - 123		03/23/16 11:49	1
Dibromofluoromethane (Surr)	100		64 - 128		03/23/16 11:49	1
Toluene-d8 (Surr)	102		71 - 118		03/23/16 11:49	1

Lab Sample ID: LCS 180-171549/1002

Matrix: Water

Analysis Batch: 171549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.72		ug/L		97	75 - 125
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	69 - 127
Toluene	10.0	11.6		ug/L		116	74 - 126
Trichloroethene	10.0	11.4		ug/L		114	73 - 125
Vinyl chloride	10.0	8.77		ug/L		88	30 - 140
trans-1,2-Dichloroethene	10.0	11.3		ug/L		113	69 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		58 - 135
4-Bromofluorobenzene (Surr)	93		62 - 123
Dibromofluoromethane (Surr)	99		64 - 128
Toluene-d8 (Surr)	108		71 - 118

Lab Sample ID: 180-53149-7 MS

Matrix: Water

Analysis Batch: 171549

Client Sample ID: WG-18036-031716-DT-007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	10.0	9.13		ug/L		91	75 - 125
cis-1,2-Dichloroethene	3.5		10.0	12.3		ug/L		88	69 - 127
Toluene	1.0	U	10.0	10.4		ug/L		104	74 - 126
Trichloroethene	0.30	J	10.0	9.94		ug/L		96	73 - 125
Vinyl chloride	5.6		10.0	13.5		ug/L		79	30 - 140
trans-1,2-Dichloroethene	0.25	J	10.0	10.2		ug/L		100	69 - 131

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 135
4-Bromofluorobenzene (Surr)	90		62 - 123
Dibromofluoromethane (Surr)	99		64 - 128

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-53149-7 MS
Matrix: Water
Analysis Batch: 171549

Client Sample ID: WG-18036-031716-DT-007
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	103		71 - 118

Lab Sample ID: 180-53149-7 MSD
Matrix: Water
Analysis Batch: 171549

Client Sample ID: WG-18036-031716-DT-007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	10.0	8.43		ug/L		84	75 - 125	8	25
cis-1,2-Dichloroethene	3.5		10.0	12.0		ug/L		85	69 - 127	3	20
Toluene	1.0	U	10.0	9.68		ug/L		97	74 - 126	7	25
Trichloroethene	0.30	J	10.0	9.23		ug/L		89	73 - 125	7	25
Vinyl chloride	5.6		10.0	12.2		ug/L		66	30 - 140	11	35
trans-1,2-Dichloroethene	0.25	J	10.0	9.27		ug/L		90	69 - 131	10	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		58 - 135
4-Bromofluorobenzene (Surr)	88		62 - 123
Dibromofluoromethane (Surr)	93		64 - 128
Toluene-d8 (Surr)	102		71 - 118

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-171312/1-A
Matrix: Water
Analysis Batch: 171626

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 171312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Cadmium	5.0	U	5.0	0.25	ug/L		03/21/16 07:28	03/23/16 17:08		1
Lead	10	U	10	2.0	ug/L		03/21/16 07:28	03/23/16 17:08		1

Lab Sample ID: LCS 180-171312/2-A
Matrix: Water
Analysis Batch: 171626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 171312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	50.6		ug/L		101	85 - 115
Lead	500	485		ug/L		97	85 - 115

Lab Sample ID: 180-53149-7 MS
Matrix: Water
Analysis Batch: 171626

Client Sample ID: WG-18036-031716-DT-007
Prep Type: Total Recoverable
Prep Batch: 171312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	5.0	U	50.0	51.3		ug/L		103	70 - 130
Lead	10	U	500	489		ug/L		98	70 - 130

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-53149-7 MSD
Matrix: Water
Analysis Batch: 171626

Client Sample ID: WG-18036-031716-DT-007
Prep Type: Total Recoverable
Prep Batch: 171312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Cadmium	5.0	U	50.0	52.0		ug/L		104	70 - 130	1	20	
Lead	10	U	500	493		ug/L		99	70 - 130	1	20	

Lab Sample ID: 180-53149-11 MS
Matrix: Water
Analysis Batch: 171626

Client Sample ID: WG-18036-031716-011-SG
Prep Type: Total Recoverable
Prep Batch: 171312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Cadmium	5.0	U	50.0	53.7		ug/L		107	70 - 130			

Lab Sample ID: 180-53149-11 MS
Matrix: Water
Analysis Batch: 171840

Client Sample ID: WG-18036-031716-011-SG
Prep Type: Total Recoverable
Prep Batch: 171312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Lead	20	U	500	480		ug/L		96	70 - 130			

Lab Sample ID: 180-53149-11 MSD
Matrix: Water
Analysis Batch: 171626

Client Sample ID: WG-18036-031716-011-SG
Prep Type: Total Recoverable
Prep Batch: 171312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Cadmium	5.0	U	50.0	53.1		ug/L		106	70 - 130	1	20	

Lab Sample ID: 180-53149-11 MSD
Matrix: Water
Analysis Batch: 171840

Client Sample ID: WG-18036-031716-011-SG
Prep Type: Total Recoverable
Prep Batch: 171312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Lead	20	U	500	475		ug/L		95	70 - 130	1	20	

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

GC/MS VOA

Analysis Batch: 171549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-53149-1	WG-18036-031716-DT-001	Total/NA	Water	624	
180-53149-2	WG-18036-031716-002-SG	Total/NA	Water	624	
180-53149-3	WG-18036-031716-DT-003	Total/NA	Water	624	
180-53149-4	WG-18036-031716-004-SG	Total/NA	Water	624	
180-53149-5	WG-18036-031716-DT-005	Total/NA	Water	624	
180-53149-6	WG-18036-031716-006-SG	Total/NA	Water	624	
180-53149-7	WG-18036-031716-DT-007	Total/NA	Water	624	
180-53149-8	WG-18036-031716-008-SG	Total/NA	Water	624	
180-53149-9	WG-18036-031716-009-SG	Total/NA	Water	624	
180-53149-10	WG-18036-031716-010-SG	Total/NA	Water	624	
180-53149-11	WG-18036-031716-011-SG	Total/NA	Water	624	
180-53149-12	TB-18036-031716-DT	Total/NA	Water	624	
MB 180-171549/6	Method Blank	Total/NA	Water	624	
LCS 180-171549/1002	Lab Control Sample	Total/NA	Water	624	
180-53149-7 MS	WG-18036-031716-DT-007	Total/NA	Water	624	
180-53149-7 MSD	WG-18036-031716-DT-007	Total/NA	Water	624	

Metals

Prep Batch: 171312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-53149-1	WG-18036-031716-DT-001	Total Recoverable	Water	200.7	
180-53149-2	WG-18036-031716-002-SG	Total Recoverable	Water	200.7	
180-53149-3	WG-18036-031716-DT-003	Total Recoverable	Water	200.7	
180-53149-4	WG-18036-031716-004-SG	Total Recoverable	Water	200.7	
180-53149-5	WG-18036-031716-DT-005	Total Recoverable	Water	200.7	
180-53149-6	WG-18036-031716-006-SG	Total Recoverable	Water	200.7	
180-53149-7	WG-18036-031716-DT-007	Total Recoverable	Water	200.7	
180-53149-8	WG-18036-031716-008-SG	Total Recoverable	Water	200.7	
180-53149-9	WG-18036-031716-009-SG	Total Recoverable	Water	200.7	
180-53149-10	WG-18036-031716-010-SG	Total Recoverable	Water	200.7	
180-53149-11	WG-18036-031716-011-SG	Total Recoverable	Water	200.7	
MB 180-171312/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-171312/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
180-53149-7 MS	WG-18036-031716-DT-007	Total Recoverable	Water	200.7	
180-53149-7 MSD	WG-18036-031716-DT-007	Total Recoverable	Water	200.7	
180-53149-11 MS	WG-18036-031716-011-SG	Total Recoverable	Water	200.7	
180-53149-11 MSD	WG-18036-031716-011-SG	Total Recoverable	Water	200.7	

Analysis Batch: 171626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-53149-1	WG-18036-031716-DT-001	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-2	WG-18036-031716-002-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-3	WG-18036-031716-DT-003	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-4	WG-18036-031716-004-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-5	WG-18036-031716-DT-005	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-6	WG-18036-031716-006-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-7	WG-18036-031716-DT-007	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-8	WG-18036-031716-008-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-9	WG-18036-031716-009-SG	Total Recoverable	Water	200.7 Rev 4.4	171312

TestAmerica Pittsburgh

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-53149-1

Metals (Continued)

Analysis Batch: 171626 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-53149-10	WG-18036-031716-010-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-11	WG-18036-031716-011-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
MB 180-171312/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	171312
LCS 180-171312/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-7 MS	WG-18036-031716-DT-007	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-7 MSD	WG-18036-031716-DT-007	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-11 MS	WG-18036-031716-011-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-11 MSD	WG-18036-031716-011-SG	Total Recoverable	Water	200.7 Rev 4.4	171312

Analysis Batch: 171840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-53149-8	WG-18036-031716-008-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-10	WG-18036-031716-010-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-11	WG-18036-031716-011-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-11 MS	WG-18036-031716-011-SG	Total Recoverable	Water	200.7 Rev 4.4	171312
180-53149-11 MSD	WG-18036-031716-011-SG	Total Recoverable	Water	200.7 Rev 4.4	171312



CHAIN OF CUSTODY RECORD

COC NO.: 53205

Address: 2055 Niagara Falls Blvd NE NY 14304 PAGE OF

Phone: 716-297-6150 Fax:

Project No/ Phase/Task Code: 18036-2014
 Laboratory Name: Test America
 Lab Location: Pittsburgh
 SSOW ID:
 Project Name: BNIA Quarterly Post Closure Monitoring
 Lab Contact: Jill Colussy
 Cooler No:

Project Location: Buffalo Airport
 ANALYSIS REQUESTED (See Back of COC for Definitions)
 Carrier:
 GHD Chemistry Contact:
 Airbill No:
 Total # of Containers:

Sampler(s): S. Gardner D. Tyrn
 Matrix Code (see back of COC)
 Grab (G) or Comp (C)
 Filtered (Y/N)
 VOCs
 Metals
 Barcode: 180-53149 Chain of Custody
 TS/ ACTIONS:

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Filtered (Y/N)	VOCs	Metals	Other	Other	Other	Other	Other	Other	Other	Other	Other	Other	Other
PRESERVATION - (SEE BACK OF COC FOR ABBREVIATIONS)																			
1	WG-18036-031716-DT-001	3-17-16	0840	WG	G	N	X	X											4
2	WG-18036-031716-002-SG	3-17-16	0815	WG	G	N	X	X											4
3	WG-18036-031716-DT-003	3-17-16	0935	WG	G	N	X	X											4
4	WG-18036-031716-004-SG	3-17-16	0855	WG	G	N	X	X											4
5	WG-18036-031716-DT-005	3-17-16	1025	WG	G	N	X	X											4
6	WG-18036-031716-006-SG	3-17-16	0855	WG	G	N	X	X											4
7	WG-18036-031716-DT-007	3-17-16	1130	WG	G	N	X	X											12 X
8	WG-18036-031716-008-SG	3-17-16	1045	WG	G	N	X	X											4
9	WG-18036-031716-009-SG	3-17-16	1235	WG	G	N	X	X											4
10	WG-18036-031716-010-SG	3-17-16	1135	WG	G	N	X	X											4
11	WG-18036-031716-011-SG	3-17-16	1335	WG	G	N	X	X											4
12	TB-18036-031716-DT	3-17-16		TB	G	N	X												2

TAT Required in business days (use separate COCs for different TATs):
 1 Day 2 Days 3 Days 1 Week 2 Week Other:
 Notes/ Special Requirements:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
1. Dave Tyrn	GHD	3/17/16	1522	1. Debra Winters	JAP	3-18-16	1115
2.				2.			
3.				3.			

Login Sample Receipt Checklist

Client: Brausch Environmental LLC

Job Number: 180-53149-1

Login Number: 53149

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-55990-1

Client Project/Site: Buffalo Airport

Revision: 1

For:

Brausch Environmental LLC

5318 Alexa Road

Charlotte, North Carolina 28277

Attn: Leo Brausch



Authorized for release by:

11/8/2016 4:09:43 PM

Jennifer Rumble, Analyst I

jennifer.rumble@testamericainc.com

Designee for

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

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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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Case Narrative

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Job ID: 180-55990-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-55990-1 REV1

Note

The client added an analyte to method 624 after the report went out. A revised report (Rev1) was created.

Receipt

The samples were received on 6/24/2016 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.9° C, 3.8° C and 4.4° C.

The chain of custody did not list a sampling time for TB-18036-062316-SG. Since this sample was a TRIP BLANK the earliest sample time was logged in. One of vials for this sample was received with head-space.

The chain of custody listed a sampling time of 11:00 for sample WG-18036-062316-SG-006. The metals bottle for this sample listed a sampling time of 10:15. The VOA vials for this sample had a sampling time of 11:00. The sampling time was logged in off of the chain of custody.

GC/MS VOA

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

Metals

Due to sample matrix effect on the internal standard (ISTD); indium was suppressed; samples WG-18036-062316-SG-008 (180-55990-8) and WG-18036-062316-SG-011 (180-55990-11) were analyzed at a dilution for lead. The reporting limits have been adjusted according

Definitions/Glossary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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)

Certification Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-17

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Sample Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-55990-1	WG-18036-062316-SG-001	Water	06/23/16 08:40	06/24/16 08:50
180-55990-2	WG-18036-062316-SG-002	Water	06/23/16 08:40	06/24/16 08:50
180-55990-3	WG-18036-062316-SG-003	Water	06/23/16 09:55	06/24/16 08:50
180-55990-4	WG-18036-062316-SG-004	Water	06/23/16 09:35	06/24/16 08:50
180-55990-5	WG-18036-062316-SG-005	Water	06/23/16 11:05	06/24/16 08:50
180-55990-6	WG-18036-062316-SG-006	Water	06/23/16 11:00	06/24/16 08:50
180-55990-7	WG-18036-062316-SG-007	Water	06/23/16 12:05	06/24/16 08:50
180-55990-8	WG-18036-062316-SG-008	Water	06/23/16 11:55	06/24/16 08:50
180-55990-9	WG-18036-062316-SG-009	Water	06/23/16 12:05	06/24/16 08:50
180-55990-10	WG-18036-062316-SG-010	Water	06/23/16 13:05	06/24/16 08:50
180-55990-11	WG-18036-062316-SG-011	Water	06/23/16 13:55	06/24/16 08:50
180-55990-12	TB-18036-062316-SG	Water	06/23/16 08:40	06/24/16 08:50

Method Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Client Sample ID: WG-18036-062316-SG-001

Lab Sample ID: 180-55990-1

Date Collected: 06/23/16 08:40

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180393	06/29/16 10:23	DLF	TAL PIT
	Instrument ID: CHHP5									
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 09:50	RJR	TAL PIT
	Instrument ID: Q									

Client Sample ID: WG-18036-062316-SG-002

Lab Sample ID: 180-55990-2

Date Collected: 06/23/16 08:40

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180393	06/29/16 10:47	DLF	TAL PIT
	Instrument ID: CHHP5									
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 09:56	RJR	TAL PIT
	Instrument ID: Q									

Client Sample ID: WG-18036-062316-SG-003

Lab Sample ID: 180-55990-3

Date Collected: 06/23/16 09:55

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180561	06/30/16 00:20	DLF	TAL PIT
	Instrument ID: CHHP6									
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 10:01	RJR	TAL PIT
	Instrument ID: Q									

Client Sample ID: WG-18036-062316-SG-004

Lab Sample ID: 180-55990-4

Date Collected: 06/23/16 09:35

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180561	06/29/16 15:02	DLF	TAL PIT
	Instrument ID: CHHP6									
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 10:07	RJR	TAL PIT
	Instrument ID: Q									

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Client Sample ID: WG-18036-062316-SG-005

Lab Sample ID: 180-55990-5

Date Collected: 06/23/16 11:05

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180561	06/30/16 00:45	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 10:29	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-062316-SG-006

Lab Sample ID: 180-55990-6

Date Collected: 06/23/16 11:00

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180567	06/29/16 16:48	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 10:34	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-062316-SG-007

Lab Sample ID: 180-55990-7

Date Collected: 06/23/16 12:05

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180567	06/29/16 17:12	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 10:40	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-062316-SG-008

Lab Sample ID: 180-55990-8

Date Collected: 06/23/16 11:55

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180567	06/29/16 17:36	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 10:56	RJR	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			180485	06/28/16 13:31	RJR	TAL PIT
Instrument ID: Q										

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Client Sample ID: WG-18036-062316-SG-009

Lab Sample ID: 180-55990-9

Date Collected: 06/23/16 12:05

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180567	06/29/16 18:24	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 11:02	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-062316-SG-010

Lab Sample ID: 180-55990-10

Date Collected: 06/23/16 13:05

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180567	06/29/16 18:48	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 11:08	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-062316-SG-011

Lab Sample ID: 180-55990-11

Date Collected: 06/23/16 13:55

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180567	06/29/16 19:12	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			180422	06/28/16 11:14	RJR	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	180267	06/27/16 07:48	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			180422	06/28/16 11:46	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: TB-18036-062316-SG

Lab Sample ID: 180-55990-12

Date Collected: 06/23/16 08:40

Matrix: Water

Date Received: 06/24/16 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	180561	06/29/16 15:26	DLF	TAL PIT
Instrument ID: CHHP6										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

ANA = Alexis Anderson

Batch Type: Analysis

DLF = Donald Ferguson

RJR = Ron Rosenbaum

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Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Client Sample ID: WG-18036-062316-SG-001

Lab Sample ID: 180-55990-1

Date Collected: 06/23/16 08:40

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 10:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 10:23	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 10:23	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/29/16 10:23	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/29/16 10:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		58 - 135		06/29/16 10:23	1
4-Bromofluorobenzene (Surr)	101		62 - 123		06/29/16 10:23	1
Dibromofluoromethane (Surr)	123		64 - 128		06/29/16 10:23	1
Toluene-d8 (Surr)	108		71 - 118		06/29/16 10:23	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 09:50	1
Lead	10	U	10	2.7	ug/L		06/27/16 07:48	06/28/16 09:50	1

Client Sample ID: WG-18036-062316-SG-002

Lab Sample ID: 180-55990-2

Date Collected: 06/23/16 08:40

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 10:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 10:47	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 10:47	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/29/16 10:47	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/29/16 10:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		58 - 135		06/29/16 10:47	1
4-Bromofluorobenzene (Surr)	96		62 - 123		06/29/16 10:47	1
Dibromofluoromethane (Surr)	119		64 - 128		06/29/16 10:47	1
Toluene-d8 (Surr)	110		71 - 118		06/29/16 10:47	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 09:56	1
Lead	10	U	10	2.7	ug/L		06/27/16 07:48	06/28/16 09:56	1

Client Sample ID: WG-18036-062316-SG-003

Lab Sample ID: 180-55990-3

Date Collected: 06/23/16 09:55

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/30/16 00:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/30/16 00:20	1
Toluene	1.0	U	1.0	0.28	ug/L			06/30/16 00:20	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Client Sample ID: WG-18036-062316-SG-003

Lab Sample ID: 180-55990-3

Date Collected: 06/23/16 09:55

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/30/16 00:20	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/30/16 00:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/30/16 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		58 - 135					06/30/16 00:20	1
4-Bromofluorobenzene (Surr)	103		62 - 123					06/30/16 00:20	1
Dibromofluoromethane (Surr)	94		64 - 128					06/30/16 00:20	1
Toluene-d8 (Surr)	107		71 - 118					06/30/16 00:20	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 10:01	1
Lead	10	U	10	2.7	ug/L		06/27/16 07:48	06/28/16 10:01	1

Client Sample ID: WG-18036-062316-SG-004

Lab Sample ID: 180-55990-4

Date Collected: 06/23/16 09:35

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 15:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 15:02	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 15:02	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/29/16 15:02	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/29/16 15:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 135					06/29/16 15:02	1
4-Bromofluorobenzene (Surr)	106		62 - 123					06/29/16 15:02	1
Dibromofluoromethane (Surr)	96		64 - 128					06/29/16 15:02	1
Toluene-d8 (Surr)	110		71 - 118					06/29/16 15:02	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 10:07	1
Lead	10	U	10	2.7	ug/L		06/27/16 07:48	06/28/16 10:07	1

Client Sample ID: WG-18036-062316-SG-005

Lab Sample ID: 180-55990-5

Date Collected: 06/23/16 11:05

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/30/16 00:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/30/16 00:45	1
Toluene	1.0	U	1.0	0.28	ug/L			06/30/16 00:45	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/30/16 00:45	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/30/16 00:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/30/16 00:45	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Client Sample ID: WG-18036-062316-SG-005

Lab Sample ID: 180-55990-5

Date Collected: 06/23/16 11:05

Matrix: Water

Date Received: 06/24/16 08:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 135		06/30/16 00:45	1
4-Bromofluorobenzene (Surr)	105		62 - 123		06/30/16 00:45	1
Dibromofluoromethane (Surr)	97		64 - 128		06/30/16 00:45	1
Toluene-d8 (Surr)	109		71 - 118		06/30/16 00:45	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 10:29	1
Lead	10	U	10	2.7	ug/L		06/27/16 07:48	06/28/16 10:29	1

Client Sample ID: WG-18036-062316-SG-006

Lab Sample ID: 180-55990-6

Date Collected: 06/23/16 11:00

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 16:48	1
cis-1,2-Dichloroethene	0.51	J	1.0	0.29	ug/L			06/29/16 16:48	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 16:48	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/29/16 16:48	1
Vinyl chloride	0.66	J	1.0	0.32	ug/L			06/29/16 16:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		58 - 135		06/29/16 16:48	1
4-Bromofluorobenzene (Surr)	89		62 - 123		06/29/16 16:48	1
Dibromofluoromethane (Surr)	109		64 - 128		06/29/16 16:48	1
Toluene-d8 (Surr)	107		71 - 118		06/29/16 16:48	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 10:34	1
Lead	5.2	J	10	2.7	ug/L		06/27/16 07:48	06/28/16 10:34	1

Client Sample ID: WG-18036-062316-SG-007

Lab Sample ID: 180-55990-7

Date Collected: 06/23/16 12:05

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 17:12	1
cis-1,2-Dichloroethene	3.1		1.0	0.29	ug/L			06/29/16 17:12	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 17:12	1
Trichloroethene	0.32	J	1.0	0.26	ug/L			06/29/16 17:12	1
Vinyl chloride	2.2		1.0	0.32	ug/L			06/29/16 17:12	1
trans-1,2-Dichloroethene	1.9		1.0	0.29	ug/L			06/29/16 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		58 - 135		06/29/16 17:12	1
4-Bromofluorobenzene (Surr)	93		62 - 123		06/29/16 17:12	1
Dibromofluoromethane (Surr)	105		64 - 128		06/29/16 17:12	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Client Sample ID: WG-18036-062316-SG-007

Lab Sample ID: 180-55990-7

Date Collected: 06/23/16 12:05

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 118		06/29/16 17:12	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 10:40	1
Lead	10	U	10	2.7	ug/L		06/27/16 07:48	06/28/16 10:40	1

Client Sample ID: WG-18036-062316-SG-008

Lab Sample ID: 180-55990-8

Date Collected: 06/23/16 11:55

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 17:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 17:36	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 17:36	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/29/16 17:36	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/29/16 17:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		58 - 135		06/29/16 17:36	1
4-Bromofluorobenzene (Surr)	88		62 - 123		06/29/16 17:36	1
Dibromofluoromethane (Surr)	109		64 - 128		06/29/16 17:36	1
Toluene-d8 (Surr)	110		71 - 118		06/29/16 17:36	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 10:56	1
Lead	20	U	20	5.4	ug/L		06/27/16 07:48	06/28/16 13:31	2

Client Sample ID: WG-18036-062316-SG-009

Lab Sample ID: 180-55990-9

Date Collected: 06/23/16 12:05

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 18:24	1
cis-1,2-Dichloroethene	3.2		1.0	0.29	ug/L			06/29/16 18:24	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 18:24	1
Trichloroethene	0.33	J	1.0	0.26	ug/L			06/29/16 18:24	1
Vinyl chloride	2.2		1.0	0.32	ug/L			06/29/16 18:24	1
trans-1,2-Dichloroethene	1.9		1.0	0.29	ug/L			06/29/16 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		58 - 135		06/29/16 18:24	1
4-Bromofluorobenzene (Surr)	90		62 - 123		06/29/16 18:24	1
Dibromofluoromethane (Surr)	107		64 - 128		06/29/16 18:24	1
Toluene-d8 (Surr)	107		71 - 118		06/29/16 18:24	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Client Sample ID: WG-18036-062316-SG-009

Lab Sample ID: 180-55990-9

Date Collected: 06/23/16 12:05

Matrix: Water

Date Received: 06/24/16 08:50

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 11:02	1
Lead	10	U	10	2.7	ug/L		06/27/16 07:48	06/28/16 11:02	1

Client Sample ID: WG-18036-062316-SG-010

Lab Sample ID: 180-55990-10

Date Collected: 06/23/16 13:05

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 18:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 18:48	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 18:48	1
Trichloroethene	0.77	J	1.0	0.26	ug/L			06/29/16 18:48	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/29/16 18:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		58 - 135		06/29/16 18:48	1
4-Bromofluorobenzene (Surr)	86		62 - 123		06/29/16 18:48	1
Dibromofluoromethane (Surr)	110		64 - 128		06/29/16 18:48	1
Toluene-d8 (Surr)	101		71 - 118		06/29/16 18:48	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 11:08	1
Lead	10	U	10	2.7	ug/L		06/27/16 07:48	06/28/16 11:08	1

Client Sample ID: WG-18036-062316-SG-011

Lab Sample ID: 180-55990-11

Date Collected: 06/23/16 13:55

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 19:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 19:12	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 19:12	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/29/16 19:12	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/29/16 19:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		58 - 135		06/29/16 19:12	1
4-Bromofluorobenzene (Surr)	89		62 - 123		06/29/16 19:12	1
Dibromofluoromethane (Surr)	114		64 - 128		06/29/16 19:12	1
Toluene-d8 (Surr)	103		71 - 118		06/29/16 19:12	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 11:14	1
Lead	20	U	20	5.4	ug/L		06/27/16 07:48	06/28/16 11:46	2

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Client Sample ID: TB-18036-062316-SG

Lab Sample ID: 180-55990-12

Date Collected: 06/23/16 08:40

Matrix: Water

Date Received: 06/24/16 08:50

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 15:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 15:26	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 15:26	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/29/16 15:26	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/29/16 15:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 135		06/29/16 15:26	1
4-Bromofluorobenzene (Surr)	100		62 - 123		06/29/16 15:26	1
Dibromofluoromethane (Surr)	96		64 - 128		06/29/16 15:26	1
Toluene-d8 (Surr)	103		71 - 118		06/29/16 15:26	1

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-180393/9

Matrix: Water

Analysis Batch: 180393

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/28/16 13:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/28/16 13:31	1
Toluene	1.0	U	1.0	0.28	ug/L			06/28/16 13:31	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/28/16 13:31	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/28/16 13:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/28/16 13:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		58 - 135		06/28/16 13:31	1
4-Bromofluorobenzene (Surr)	97		62 - 123		06/28/16 13:31	1
Dibromofluoromethane (Surr)	110		64 - 128		06/28/16 13:31	1
Toluene-d8 (Surr)	107		71 - 118		06/28/16 13:31	1

Lab Sample ID: LCS 180-180393/1008

Matrix: Water

Analysis Batch: 180393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	8.49		ug/L		85	75 - 125
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	69 - 127
Toluene	10.0	11.3		ug/L		113	74 - 126
Trichloroethene	10.0	10.2		ug/L		102	73 - 125
Vinyl chloride	10.0	10.3		ug/L		103	30 - 140
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	69 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		58 - 135
4-Bromofluorobenzene (Surr)	93		62 - 123
Dibromofluoromethane (Surr)	96		64 - 128
Toluene-d8 (Surr)	108		71 - 118

Lab Sample ID: MB 180-180561/5

Matrix: Water

Analysis Batch: 180561

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 14:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 14:22	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 14:22	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/29/16 14:22	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/29/16 14:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 14:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 135		06/29/16 14:22	1
4-Bromofluorobenzene (Surr)	106		62 - 123		06/29/16 14:22	1
Dibromofluoromethane (Surr)	91		64 - 128		06/29/16 14:22	1

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-180561/5
Matrix: Water
Analysis Batch: 180561

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	110		71 - 118		06/29/16 14:22	1

Lab Sample ID: LCS 180-180561/1002
Matrix: Water
Analysis Batch: 180561

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	69 - 127
Toluene	10.0	10.7		ug/L		107	74 - 126
Trichloroethene	10.0	10.3		ug/L		103	73 - 125
Vinyl chloride	10.0	10.1		ug/L		101	30 - 140
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	69 - 131

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		58 - 135
4-Bromofluorobenzene (Surr)	106		62 - 123
Dibromofluoromethane (Surr)	104		64 - 128
Toluene-d8 (Surr)	101		71 - 118

Lab Sample ID: 180-55990-4 MS
Matrix: Water
Analysis Batch: 180561

Client Sample ID: WG-18036-062316-SG-004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	1.0	U	10.0	10.6		ug/L		106	69 - 127
Toluene	1.0	U	10.0	11.1		ug/L		111	74 - 126
Trichloroethene	1.0	U	10.0	10.5		ug/L		105	73 - 125
Vinyl chloride	1.0	U	10.0	10.4		ug/L		104	30 - 140
trans-1,2-Dichloroethene	1.0	U	10.0	10.7		ug/L		107	69 - 131

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		58 - 135
4-Bromofluorobenzene (Surr)	103		62 - 123
Dibromofluoromethane (Surr)	98		64 - 128
Toluene-d8 (Surr)	105		71 - 118

Lab Sample ID: 180-55990-4 MSD
Matrix: Water
Analysis Batch: 180561

Client Sample ID: WG-18036-062316-SG-004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	1.0	U	10.0	9.88		ug/L		99	69 - 127	7	20
Toluene	1.0	U	10.0	10.7		ug/L		107	74 - 126	4	25
Trichloroethene	1.0	U	10.0	10.1		ug/L		101	73 - 125	4	25

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-55990-4 MSD
Matrix: Water
Analysis Batch: 180561

Client Sample ID: WG-18036-062316-SG-004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	1.0	U	10.0	10.0		ug/L		100	30 - 140	4	35
trans-1,2-Dichloroethene	1.0	U	10.0	10.3		ug/L		103	69 - 131	4	25
Surrogate	%Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	99		58 - 135								
4-Bromofluorobenzene (Surr)	102		62 - 123								
Dibromofluoromethane (Surr)	99		64 - 128								
Toluene-d8 (Surr)	101		71 - 118								

Lab Sample ID: MB 180-180567/7
Matrix: Water
Analysis Batch: 180567

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/29/16 15:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 15:10	1
Toluene	1.0	U	1.0	0.28	ug/L			06/29/16 15:10	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			06/29/16 15:10	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			06/29/16 15:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/29/16 15:10	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		58 - 135					06/29/16 15:10	1
4-Bromofluorobenzene (Surr)	89		62 - 123					06/29/16 15:10	1
Dibromofluoromethane (Surr)	106		64 - 128					06/29/16 15:10	1
Toluene-d8 (Surr)	106		71 - 118					06/29/16 15:10	1

Lab Sample ID: LCS 180-180567/1002
Matrix: Water
Analysis Batch: 180567

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	7.59		ug/L		76	75 - 125
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	69 - 127
Toluene	10.0	10.8		ug/L		108	74 - 126
Trichloroethene	10.0	10.1		ug/L		101	73 - 125
Vinyl chloride	10.0	9.99		ug/L		100	30 - 140
trans-1,2-Dichloroethene	10.0	9.94		ug/L		99	69 - 131
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	92		58 - 135				
4-Bromofluorobenzene (Surr)	88		62 - 123				
Dibromofluoromethane (Surr)	93		64 - 128				
Toluene-d8 (Surr)	102		71 - 118				

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-180267/1-A
Matrix: Water
Analysis Batch: 180422

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 180267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		06/27/16 07:48	06/28/16 08:45	1
Lead	10	U	10	2.7	ug/L		06/27/16 07:48	06/28/16 08:45	1

Lab Sample ID: LCS 180-180267/2-A
Matrix: Water
Analysis Batch: 180422

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 180267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	50.4		ug/L		101	85 - 115
Lead	500	506		ug/L		101	85 - 115

Lab Sample ID: 180-55990-4 MS
Matrix: Water
Analysis Batch: 180422

Client Sample ID: WG-18036-062316-SG-004
Prep Type: Total Recoverable
Prep Batch: 180267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	5.0	U	50.0	49.9		ug/L		100	70 - 130
Lead	10	U	500	503		ug/L		101	70 - 130

Lab Sample ID: 180-55990-4 MSD
Matrix: Water
Analysis Batch: 180422

Client Sample ID: WG-18036-062316-SG-004
Prep Type: Total Recoverable
Prep Batch: 180267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	5.0	U	50.0	49.8		ug/L		100	70 - 130	0	20
Lead	10	U	500	505		ug/L		101	70 - 130	0	20

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

GC/MS VOA

Analysis Batch: 180393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-55990-1	WG-18036-062316-SG-001	Total/NA	Water	624	
180-55990-2	WG-18036-062316-SG-002	Total/NA	Water	624	
MB 180-180393/9	Method Blank	Total/NA	Water	624	
LCS 180-180393/1008	Lab Control Sample	Total/NA	Water	624	

Analysis Batch: 180561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-55990-3	WG-18036-062316-SG-003	Total/NA	Water	624	
180-55990-4	WG-18036-062316-SG-004	Total/NA	Water	624	
180-55990-5	WG-18036-062316-SG-005	Total/NA	Water	624	
180-55990-12	TB-18036-062316-SG	Total/NA	Water	624	
MB 180-180561/5	Method Blank	Total/NA	Water	624	
LCS 180-180561/1002	Lab Control Sample	Total/NA	Water	624	
180-55990-4 MS	WG-18036-062316-SG-004	Total/NA	Water	624	
180-55990-4 MSD	WG-18036-062316-SG-004	Total/NA	Water	624	

Analysis Batch: 180567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-55990-6	WG-18036-062316-SG-006	Total/NA	Water	624	
180-55990-7	WG-18036-062316-SG-007	Total/NA	Water	624	
180-55990-8	WG-18036-062316-SG-008	Total/NA	Water	624	
180-55990-9	WG-18036-062316-SG-009	Total/NA	Water	624	
180-55990-10	WG-18036-062316-SG-010	Total/NA	Water	624	
180-55990-11	WG-18036-062316-SG-011	Total/NA	Water	624	
MB 180-180567/7	Method Blank	Total/NA	Water	624	
LCS 180-180567/1002	Lab Control Sample	Total/NA	Water	624	

Metals

Prep Batch: 180267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-55990-1	WG-18036-062316-SG-001	Total Recoverable	Water	200.7	
180-55990-2	WG-18036-062316-SG-002	Total Recoverable	Water	200.7	
180-55990-3	WG-18036-062316-SG-003	Total Recoverable	Water	200.7	
180-55990-4	WG-18036-062316-SG-004	Total Recoverable	Water	200.7	
180-55990-5	WG-18036-062316-SG-005	Total Recoverable	Water	200.7	
180-55990-6	WG-18036-062316-SG-006	Total Recoverable	Water	200.7	
180-55990-7	WG-18036-062316-SG-007	Total Recoverable	Water	200.7	
180-55990-8	WG-18036-062316-SG-008	Total Recoverable	Water	200.7	
180-55990-9	WG-18036-062316-SG-009	Total Recoverable	Water	200.7	
180-55990-10	WG-18036-062316-SG-010	Total Recoverable	Water	200.7	
180-55990-11	WG-18036-062316-SG-011	Total Recoverable	Water	200.7	
MB 180-180267/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-180267/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
180-55990-4 MS	WG-18036-062316-SG-004	Total Recoverable	Water	200.7	
180-55990-4 MSD	WG-18036-062316-SG-004	Total Recoverable	Water	200.7	

Analysis Batch: 180422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-55990-1	WG-18036-062316-SG-001	Total Recoverable	Water	200.7 Rev 4.4	180267

TestAmerica Pittsburgh

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-55990-1

Metals (Continued)

Analysis Batch: 180422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-55990-2	WG-18036-062316-SG-002	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-3	WG-18036-062316-SG-003	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-4	WG-18036-062316-SG-004	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-5	WG-18036-062316-SG-005	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-6	WG-18036-062316-SG-006	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-7	WG-18036-062316-SG-007	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-8	WG-18036-062316-SG-008	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-9	WG-18036-062316-SG-009	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-10	WG-18036-062316-SG-010	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-11	WG-18036-062316-SG-011	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-11	WG-18036-062316-SG-011	Total Recoverable	Water	200.7 Rev 4.4	180267
MB 180-180267/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	180267
LCS 180-180267/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-4 MS	WG-18036-062316-SG-004	Total Recoverable	Water	200.7 Rev 4.4	180267
180-55990-4 MSD	WG-18036-062316-SG-004	Total Recoverable	Water	200.7 Rev 4.4	180267

Analysis Batch: 180485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-55990-8	WG-18036-062316-SG-008	Total Recoverable	Water	200.7 Rev 4.4	180267



180-55990 Chain of Custody

AIN OF CUSTODY RECORD

COC NO.: 55704

Office: NIE Office

PAGE 1 OF 1

ne:

Fax:

Project Name: BNIA - Quarterly Post Closure Monitoring

Lab Location: Pittsburgh

SSOW ID:

Project Location: Buffalo Airport

Cooler No.:

GHD Chemistry Contact:

Lab Contract: AMN/MSI REQUESTED (See Back of COC for Definitions)

Carrier:

Airbill No.:

Sampler(s): 3. Gasoline B. Tires

Item	SAMPLE IDENTIFICATION <small>(Containers for each sample may be combined on one line)</small>	DATE <small>(month/day)</small>	TIME <small>(hh:mm)</small>	Matrix Code <small>(see back of COC)</small>	Grab (G) or Comp (C)	Filtered (Y/N)	VOCs	Metals	Total Containers/sample	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	WG-18036-062316-SG-001	6-23-16	0840	WG	G	N	X	X	4		
2	WG-18036-062316-SG-002	6-23-16	0840	WG	G	N	X	X	4		
3	WG-18036-062316-SG-003	6-23-16	0935	WG	G	N	X	X	4		
4	WG-18036-062316-SG-004	6-23-16	0935	WG	G	N	X	X	12	X	
5	WG-18036-062316-SG-005	6-23-16	1105	WG	G	N	X	X	4		
6	WG-18036-062316-SG-006	6-23-16	1100	WG	G	N	X	X	4		
7	WG-18036-062316-SG-007	6-23-16	1205	WG	G	N	X	X	4		
8	WG-18036-062316-SG-008	6-23-16	1155	WG	G	N	X	X	4		
9	WG-18036-062316-SG-009	6-23-16	1205	WG	G	N	X	X	4		
10	WG-18036-062316-SG-010	6-23-16	1305	WG	G	N	X	X	4		
11	WG-18036-062316-SG-011	6-23-16	1355	WG	G	N	X	X	4		
12	TB-18036-062316-SG	6-23-16		TB	G	N	X	X	2		

PRESERVATION - (SEE BACK OF COC FOR ABBREVIATIONS)

TAT Required in business days (use separate COCs for different TATs):

1 Day 2 Days 3 Days 1 Week 2 Week Other:

Notes/Special Requirements:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
David Spear	GHD	6/23/16	1525	Debbie Watson	TRP	6-24-16	850

Login Sample Receipt Checklist

Client: Brausch Environmental LLC

Job Number: 180-55990-1

Login Number: 55990

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-58893-1
Client Project/Site: Buffalo Airport
Revision: 1

For:
Brausch Environmental LLC
5318 Alexa Road
Charlotte, North Carolina 28277

Attn: Leo Brausch



Authorized for release by:
11/11/2016 8:18:04 AM

Jill Colussy, Project Manager I
(412)963-2444
jill.colussy@testamericainc.com

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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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Case Narrative

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Job ID: 180-58893-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-58893-1 REV1

Note

The client added an analyte to method 624 after the report went out. A revised report (Rev1) was created.

Receipt

The samples were received on 9/21/2016 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9° C, 3.3° C and 4.3° C.

The chain of custody did not list a sampling time for the TRIP BLANK. The earliest sample time was logged in.

The chain of custody did not indicate MS/MSD for sample WG-18036-092016-SG-007 but the laboratory received extra sample containers for this sample. An MS/MSD was logged in for this sample.

GC/MS VOA

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

Metals

Due to sample matrix effect on the internal standard (ISTD), indium was suppressed, a dilution was required for the following samples: WG-18036-092016-SG-008 (180-58893-9), WG-18036-092016-SG-010 (180-58893-11), WG-18036-092016-SG-011 (180-58893-12). The reporting limits have been adjusted accordingly.

Definitions/Glossary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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)

Certification Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-17

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Sample Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-58893-1	TB-18036-092016-SG	Water	09/20/16 09:05	09/21/16 09:00
180-58893-2	WG-18036-092016-SG-001	Water	09/20/16 09:10	09/21/16 09:00
180-58893-3	WG-18036-092016-SG-002	Water	09/20/16 09:05	09/21/16 09:00
180-58893-4	WG-18036-092016-SG-003	Water	09/20/16 10:30	09/21/16 09:00
180-58893-5	WG-18036-092016-SG-004	Water	09/20/16 10:00	09/21/16 09:00
180-58893-6	WG-18036-092016-SG-005	Water	09/20/16 11:15	09/21/16 09:00
180-58893-7	WG-18036-092016-SG-006	Water	09/20/16 10:00	09/21/16 09:00
180-58893-8	WG-18036-092016-SG-007	Water	09/20/16 12:20	09/21/16 09:00
180-58893-9	WG-18036-092016-SG-008	Water	09/20/16 11:35	09/21/16 09:00
180-58893-10	WG-18036-092016-SG-009	Water	09/20/16 13:50	09/21/16 09:00
180-58893-11	WG-18036-092016-SG-010	Water	09/20/16 13:25	09/21/16 09:00
180-58893-12	WG-18036-092016-SG-011	Water	09/20/16 15:00	09/21/16 09:00

Method Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: TB-18036-092016-SG

Lab Sample ID: 180-58893-1

Date Collected: 09/20/16 09:05

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	188963	09/23/16 23:57	DLF	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: WG-18036-092016-SG-001

Lab Sample ID: 180-58893-2

Date Collected: 09/20/16 09:10

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189172	09/27/16 01:36	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 14:04	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-002

Lab Sample ID: 180-58893-3

Date Collected: 09/20/16 09:05

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/27/16 23:43	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 14:09	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-003

Lab Sample ID: 180-58893-4

Date Collected: 09/20/16 10:30

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/28/16 00:11	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 14:15	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-004

Lab Sample ID: 180-58893-5

Date Collected: 09/20/16 10:00

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/28/16 00:39	PJJ	TAL PIT
Instrument ID: CHHP7										

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: WG-18036-092016-SG-004

Lab Sample ID: 180-58893-5

Date Collected: 09/20/16 10:00

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 14:20	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-005

Lab Sample ID: 180-58893-6

Date Collected: 09/20/16 11:15

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/28/16 01:07	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 14:26	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-006

Lab Sample ID: 180-58893-7

Date Collected: 09/20/16 10:00

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/27/16 15:47	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 14:31	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-007

Lab Sample ID: 180-58893-8

Date Collected: 09/20/16 12:20

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	188963	09/23/16 23:33	DLF	TAL PIT
Instrument ID: CHHP6										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 14:36	RJR	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-008

Lab Sample ID: 180-58893-9

Date Collected: 09/20/16 11:35

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/27/16 16:16	PJJ	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: WG-18036-092016-SG-008

Lab Sample ID: 180-58893-9

Date Collected: 09/20/16 11:35

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/27/16 16:16	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 15:08	RJR	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		5			189182	09/26/16 11:24	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-009

Lab Sample ID: 180-58893-10

Date Collected: 09/20/16 13:50

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/27/16 16:45	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 15:30	RJR	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189182	09/26/16 10:08	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-010

Lab Sample ID: 180-58893-11

Date Collected: 09/20/16 13:25

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/27/16 17:18	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 15:35	RJR	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			189182	09/26/16 11:46	RJG	TAL PIT
Instrument ID: Q										

Client Sample ID: WG-18036-092016-SG-011

Lab Sample ID: 180-58893-12

Date Collected: 09/20/16 15:00

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/27/16 17:45	PJJ	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: WG-18036-092016-SG-011

Lab Sample ID: 180-58893-12

Date Collected: 09/20/16 15:00

Matrix: Water

Date Received: 09/21/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	189282	09/27/16 17:45	PJJ	TAL PIT
Instrument ID: CHHP7										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1			189111	09/23/16 15:41	RJR	TAL PIT
Instrument ID: Q										
Total Recoverable	Prep	200.7			50 mL	50 mL	188791	09/22/16 07:15	ANA	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		2			189182	09/26/16 11:51	RJG	TAL PIT
Instrument ID: Q										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

ANA = Alexis Anderson

Batch Type: Analysis

DLF = Donald Ferguson

PJJ = Patrick Journet

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: TB-18036-092016-SG

Lab Sample ID: 180-58893-1

Date Collected: 09/20/16 09:05

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/23/16 23:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/23/16 23:57	1
Toluene	1.0	U	1.0	0.28	ug/L			09/23/16 23:57	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/23/16 23:57	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/23/16 23:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/23/16 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 135		09/23/16 23:57	1
4-Bromofluorobenzene (Surr)	100		62 - 123		09/23/16 23:57	1
Dibromofluoromethane (Surr)	95		64 - 128		09/23/16 23:57	1
Toluene-d8 (Surr)	107		71 - 118		09/23/16 23:57	1

Client Sample ID: WG-18036-092016-SG-001

Lab Sample ID: 180-58893-2

Date Collected: 09/20/16 09:10

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/27/16 01:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 01:36	1
Toluene	1.0	U	1.0	0.28	ug/L			09/27/16 01:36	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/27/16 01:36	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/27/16 01:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		58 - 135		09/27/16 01:36	1
4-Bromofluorobenzene (Surr)	98		62 - 123		09/27/16 01:36	1
Dibromofluoromethane (Surr)	99		64 - 128		09/27/16 01:36	1
Toluene-d8 (Surr)	108		71 - 118		09/27/16 01:36	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 14:04	1
Lead	10	U	10	2.7	ug/L		09/22/16 07:15	09/23/16 14:04	1

Client Sample ID: WG-18036-092016-SG-002

Lab Sample ID: 180-58893-3

Date Collected: 09/20/16 09:05

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/27/16 23:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 23:43	1
Toluene	1.0	U	1.0	0.28	ug/L			09/27/16 23:43	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/27/16 23:43	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/27/16 23:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 23:43	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: WG-18036-092016-SG-002

Lab Sample ID: 180-58893-3

Date Collected: 09/20/16 09:05

Matrix: Water

Date Received: 09/21/16 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		58 - 135		09/27/16 23:43	1
4-Bromofluorobenzene (Surr)	93		62 - 123		09/27/16 23:43	1
Dibromofluoromethane (Surr)	109		64 - 128		09/27/16 23:43	1
Toluene-d8 (Surr)	98		71 - 118		09/27/16 23:43	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 14:09	1
Lead	10	U	10	2.7	ug/L		09/22/16 07:15	09/23/16 14:09	1

Client Sample ID: WG-18036-092016-SG-003

Lab Sample ID: 180-58893-4

Date Collected: 09/20/16 10:30

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/28/16 00:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/28/16 00:11	1
Toluene	1.0	U	1.0	0.28	ug/L			09/28/16 00:11	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/28/16 00:11	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/28/16 00:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/28/16 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		58 - 135		09/28/16 00:11	1
4-Bromofluorobenzene (Surr)	98		62 - 123		09/28/16 00:11	1
Dibromofluoromethane (Surr)	111		64 - 128		09/28/16 00:11	1
Toluene-d8 (Surr)	98		71 - 118		09/28/16 00:11	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 14:15	1
Lead	10	U	10	2.7	ug/L		09/22/16 07:15	09/23/16 14:15	1

Client Sample ID: WG-18036-092016-SG-004

Lab Sample ID: 180-58893-5

Date Collected: 09/20/16 10:00

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/28/16 00:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/28/16 00:39	1
Toluene	1.0	U	1.0	0.28	ug/L			09/28/16 00:39	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/28/16 00:39	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/28/16 00:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/28/16 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		58 - 135		09/28/16 00:39	1
4-Bromofluorobenzene (Surr)	100		62 - 123		09/28/16 00:39	1
Dibromofluoromethane (Surr)	113		64 - 128		09/28/16 00:39	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: WG-18036-092016-SG-004

Lab Sample ID: 180-58893-5

Date Collected: 09/20/16 10:00

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 118		09/28/16 00:39	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 14:20	1
Lead	10	U	10	2.7	ug/L		09/22/16 07:15	09/23/16 14:20	1

Client Sample ID: WG-18036-092016-SG-005

Lab Sample ID: 180-58893-6

Date Collected: 09/20/16 11:15

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/28/16 01:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/28/16 01:07	1
Toluene	1.0	U	1.0	0.28	ug/L			09/28/16 01:07	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/28/16 01:07	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/28/16 01:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/28/16 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		58 - 135		09/28/16 01:07	1
4-Bromofluorobenzene (Surr)	101		62 - 123		09/28/16 01:07	1
Dibromofluoromethane (Surr)	114		64 - 128		09/28/16 01:07	1
Toluene-d8 (Surr)	105		71 - 118		09/28/16 01:07	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 14:26	1
Lead	10	U	10	2.7	ug/L		09/22/16 07:15	09/23/16 14:26	1

Client Sample ID: WG-18036-092016-SG-006

Lab Sample ID: 180-58893-7

Date Collected: 09/20/16 10:00

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/27/16 15:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 15:47	1
Toluene	1.0	U	1.0	0.28	ug/L			09/27/16 15:47	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/27/16 15:47	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/27/16 15:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		58 - 135		09/27/16 15:47	1
4-Bromofluorobenzene (Surr)	110		62 - 123		09/27/16 15:47	1
Dibromofluoromethane (Surr)	110		64 - 128		09/27/16 15:47	1
Toluene-d8 (Surr)	114		71 - 118		09/27/16 15:47	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: WG-18036-092016-SG-006

Lab Sample ID: 180-58893-7

Date Collected: 09/20/16 10:00

Matrix: Water

Date Received: 09/21/16 09:00

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 14:31	1
Lead	10	U	10	2.7	ug/L		09/22/16 07:15	09/23/16 14:31	1

Client Sample ID: WG-18036-092016-SG-007

Lab Sample ID: 180-58893-8

Date Collected: 09/20/16 12:20

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/23/16 23:33	1
cis-1,2-Dichloroethene	7.0		1.0	0.29	ug/L			09/23/16 23:33	1
Toluene	1.0	U	1.0	0.28	ug/L			09/23/16 23:33	1
Trichloroethene	0.36	J	1.0	0.26	ug/L			09/23/16 23:33	1
Vinyl chloride	9.8		1.0	0.32	ug/L			09/23/16 23:33	1
trans-1,2-Dichloroethene	2.8		1.0	0.29	ug/L			09/23/16 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		58 - 135					09/23/16 23:33	1
4-Bromofluorobenzene (Surr)	99		62 - 123					09/23/16 23:33	1
Dibromofluoromethane (Surr)	94		64 - 128					09/23/16 23:33	1
Toluene-d8 (Surr)	108		71 - 118					09/23/16 23:33	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 14:36	1
Lead	3.5	J	10	2.7	ug/L		09/22/16 07:15	09/23/16 14:36	1

Client Sample ID: WG-18036-092016-SG-008

Lab Sample ID: 180-58893-9

Date Collected: 09/20/16 11:35

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/27/16 16:16	1
cis-1,2-Dichloroethene	0.35	J	1.0	0.29	ug/L			09/27/16 16:16	1
Toluene	1.0	U	1.0	0.28	ug/L			09/27/16 16:16	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/27/16 16:16	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/27/16 16:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		58 - 135					09/27/16 16:16	1
4-Bromofluorobenzene (Surr)	112		62 - 123					09/27/16 16:16	1
Dibromofluoromethane (Surr)	113		64 - 128					09/27/16 16:16	1
Toluene-d8 (Surr)	118		71 - 118					09/27/16 16:16	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 15:08	1
Lead	50	U	50	14	ug/L		09/22/16 07:15	09/26/16 11:24	5

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: WG-18036-092016-SG-009

Lab Sample ID: 180-58893-10

Date Collected: 09/20/16 13:50

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/27/16 16:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 16:45	1
Toluene	1.0	U	1.0	0.28	ug/L			09/27/16 16:45	1
Trichloroethene	0.99	J	1.0	0.26	ug/L			09/27/16 16:45	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/27/16 16:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		58 - 135		09/27/16 16:45	1
4-Bromofluorobenzene (Surr)	103		62 - 123		09/27/16 16:45	1
Dibromofluoromethane (Surr)	103		64 - 128		09/27/16 16:45	1
Toluene-d8 (Surr)	107		71 - 118		09/27/16 16:45	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 15:30	1
Lead	10	U	10	2.7	ug/L		09/22/16 07:15	09/26/16 10:08	1

Client Sample ID: WG-18036-092016-SG-010

Lab Sample ID: 180-58893-11

Date Collected: 09/20/16 13:25

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/27/16 17:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 17:18	1
Toluene	1.0	U	1.0	0.28	ug/L			09/27/16 17:18	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/27/16 17:18	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/27/16 17:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		09/27/16 17:18	1
4-Bromofluorobenzene (Surr)	93		62 - 123		09/27/16 17:18	1
Dibromofluoromethane (Surr)	101		64 - 128		09/27/16 17:18	1
Toluene-d8 (Surr)	97		71 - 118		09/27/16 17:18	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 15:35	1
Lead	8.6	J	20	5.4	ug/L		09/22/16 07:15	09/26/16 11:46	2

Client Sample ID: WG-18036-092016-SG-011

Lab Sample ID: 180-58893-12

Date Collected: 09/20/16 15:00

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/27/16 17:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 17:45	1
Toluene	1.0	U	1.0	0.28	ug/L			09/27/16 17:45	1

TestAmerica Pittsburgh

Client Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Client Sample ID: WG-18036-092016-SG-011

Lab Sample ID: 180-58893-12

Date Collected: 09/20/16 15:00

Matrix: Water

Date Received: 09/21/16 09:00

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/27/16 17:45	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/27/16 17:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 135		09/27/16 17:45	1
4-Bromofluorobenzene (Surr)	97		62 - 123		09/27/16 17:45	1
Dibromofluoromethane (Surr)	102		64 - 128		09/27/16 17:45	1
Toluene-d8 (Surr)	105		71 - 118		09/27/16 17:45	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 15:41	1
Lead	20	U	20	5.4	ug/L		09/22/16 07:15	09/26/16 11:51	2

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-188963/33
Matrix: Water
Analysis Batch: 188963

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/23/16 23:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/23/16 23:09	1
Toluene	1.0	U	1.0	0.28	ug/L			09/23/16 23:09	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/23/16 23:09	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/23/16 23:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/23/16 23:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 135		09/23/16 23:09	1
4-Bromofluorobenzene (Surr)	101		62 - 123		09/23/16 23:09	1
Dibromofluoromethane (Surr)	99		64 - 128		09/23/16 23:09	1
Toluene-d8 (Surr)	107		71 - 118		09/23/16 23:09	1

Lab Sample ID: MB 180-188963/4
Matrix: Water
Analysis Batch: 188963

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/23/16 11:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/23/16 11:12	1
Toluene	1.0	U	1.0	0.28	ug/L			09/23/16 11:12	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/23/16 11:12	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/23/16 11:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/23/16 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		58 - 135		09/23/16 11:12	1
4-Bromofluorobenzene (Surr)	102		62 - 123		09/23/16 11:12	1
Dibromofluoromethane (Surr)	96		64 - 128		09/23/16 11:12	1
Toluene-d8 (Surr)	104		71 - 118		09/23/16 11:12	1

Lab Sample ID: LCS 180-188963/1002
Matrix: Water
Analysis Batch: 188963

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	9.69		ug/L		97	75 - 125
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	69 - 127
Toluene	10.0	11.4		ug/L		114	74 - 126
Trichloroethene	10.0	10.3		ug/L		103	73 - 125
Vinyl chloride	10.0	9.93		ug/L		99	30 - 140
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	69 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		58 - 135
4-Bromofluorobenzene (Surr)	98		62 - 123
Dibromofluoromethane (Surr)	95		64 - 128

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-188963/1002

Matrix: Water

Analysis Batch: 188963

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	107		71 - 118

Lab Sample ID: 180-58893-8 MS

Matrix: Water

Analysis Batch: 188963

Client Sample ID: WG-18036-092016-SG-007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
1,1,1-Trichloroethane	1.0	U	10.0	8.52		ug/L		85	75 - 125
cis-1,2-Dichloroethene	7.0		10.0	16.5		ug/L		95	69 - 127
Toluene	1.0	U	10.0	10.5		ug/L		105	74 - 126
Trichloroethene	0.36	J	10.0	9.52		ug/L		92	73 - 125
Vinyl chloride	9.8		10.0	19.0		ug/L		92	30 - 140
trans-1,2-Dichloroethene	2.8		10.0	12.3		ug/L		95	69 - 131

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		58 - 135
4-Bromofluorobenzene (Surr)	91		62 - 123
Dibromofluoromethane (Surr)	88		64 - 128
Toluene-d8 (Surr)	102		71 - 118

Lab Sample ID: 180-58893-8 MSD

Matrix: Water

Analysis Batch: 188963

Client Sample ID: WG-18036-092016-SG-007

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
				Result	Qualifier						
1,1,1-Trichloroethane	1.0	U	10.0	9.39		ug/L		94	75 - 125	10	25
cis-1,2-Dichloroethene	7.0		10.0	17.3		ug/L		103	69 - 127	5	20
Toluene	1.0	U	10.0	10.6		ug/L		106	74 - 126	1	25
Trichloroethene	0.36	J	10.0	10.3		ug/L		100	73 - 125	8	25
Vinyl chloride	9.8		10.0	18.7		ug/L		88	30 - 140	2	35
trans-1,2-Dichloroethene	2.8		10.0	13.2		ug/L		104	69 - 131	7	25

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	80		58 - 135
4-Bromofluorobenzene (Surr)	78		62 - 123
Dibromofluoromethane (Surr)	79		64 - 128
Toluene-d8 (Surr)	86		71 - 118

Lab Sample ID: MB 180-189172/4

Matrix: Water

Analysis Batch: 189172

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/26/16 11:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/26/16 11:54	1
Toluene	1.0	U	1.0	0.28	ug/L			09/26/16 11:54	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/26/16 11:54	1

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-189172/4
Matrix: Water
Analysis Batch: 189172

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/26/16 11:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/26/16 11:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	94		58 - 135				09/26/16 11:54	1	
4-Bromofluorobenzene (Surr)	115		62 - 123				09/26/16 11:54	1	
Dibromofluoromethane (Surr)	112		64 - 128				09/26/16 11:54	1	
Toluene-d8 (Surr)	104		71 - 118				09/26/16 11:54	1	

Lab Sample ID: LCS 180-189172/1002
Matrix: Water
Analysis Batch: 189172

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1-Trichloroethane	10.0	10.0		ug/L		100	75 - 125
cis-1,2-Dichloroethene	10.0	9.93		ug/L		99	69 - 127
Toluene	10.0	11.4		ug/L		114	74 - 126
Trichloroethene	10.0	10.2		ug/L		102	73 - 125
Vinyl chloride	10.0	11.7		ug/L		117	30 - 140
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	69 - 131
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	96		58 - 135				
4-Bromofluorobenzene (Surr)	100		62 - 123				
Dibromofluoromethane (Surr)	98		64 - 128				
Toluene-d8 (Surr)	110		71 - 118				

Lab Sample ID: 180-58894-D-10 MSD
Matrix: Water
Analysis Batch: 189172

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier							Limits		
1,1,1-Trichloroethane	5.0	U	50.0	48.9		ug/L		98	75 - 125	3	25
cis-1,2-Dichloroethene	5.0	U	50.0	51.0		ug/L		102	69 - 127	8	20
Toluene	5.0	U	50.0	57.4		ug/L		115	74 - 126	3	25
Trichloroethene	1.4	J	50.0	52.1		ug/L		102	73 - 125	1	25
Vinyl chloride	5.0	U	50.0	48.0		ug/L		96	30 - 140	1	35
trans-1,2-Dichloroethene	5.0	U	50.0	52.5		ug/L		105	69 - 131	5	25
Surrogate	%Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	100		58 - 135								
4-Bromofluorobenzene (Surr)	97		62 - 123								
Dibromofluoromethane (Surr)	100		64 - 128								
Toluene-d8 (Surr)	106		71 - 118								

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-58894-E-10 MS

Matrix: Water

Analysis Batch: 189172

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
1,1,1-Trichloroethane	5.0	U	50.0	47.4		ug/L		95	75 - 125
cis-1,2-Dichloroethene	5.0	U	50.0	46.9		ug/L		94	69 - 127
Toluene	5.0	U	50.0	55.5		ug/L		111	74 - 126
Trichloroethene	1.4	J	50.0	51.4		ug/L		100	73 - 125
Vinyl chloride	5.0	U	50.0	48.7		ug/L		97	30 - 140
trans-1,2-Dichloroethene	5.0	U	50.0	50.2		ug/L		100	69 - 131

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		58 - 135
4-Bromofluorobenzene (Surr)	93		62 - 123
Dibromofluoromethane (Surr)	91		64 - 128
Toluene-d8 (Surr)	100		71 - 118

Lab Sample ID: MB 180-189282/6

Matrix: Water

Analysis Batch: 189282

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			09/27/16 13:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 13:27	1
Toluene	1.0	U	1.0	0.28	ug/L			09/27/16 13:27	1
Trichloroethene	1.0	U	1.0	0.26	ug/L			09/27/16 13:27	1
Vinyl chloride	1.0	U	1.0	0.32	ug/L			09/27/16 13:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/27/16 13:27	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		58 - 135		09/27/16 13:27	1
4-Bromofluorobenzene (Surr)	96		62 - 123		09/27/16 13:27	1
Dibromofluoromethane (Surr)	99		64 - 128		09/27/16 13:27	1
Toluene-d8 (Surr)	99		71 - 118		09/27/16 13:27	1

Lab Sample ID: LCS 180-189282/1002

Matrix: Water

Analysis Batch: 189282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
1,1,1-Trichloroethane	10.0	9.90		ug/L		99	75 - 125
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	69 - 127
Toluene	10.0	9.98		ug/L		100	74 - 126
Trichloroethene	10.0	9.45		ug/L		95	73 - 125
Vinyl chloride	10.0	10.2		ug/L		102	30 - 140
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	69 - 131

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		58 - 135
4-Bromofluorobenzene (Surr)	106		62 - 123
Dibromofluoromethane (Surr)	101		64 - 128

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-189282/1002
Matrix: Water
Analysis Batch: 189282

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		71 - 118

Lab Sample ID: 180-58893-3 MS
Matrix: Water
Analysis Batch: 189282

Client Sample ID: WG-18036-092016-SG-002
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1,1-Trichloroethane	1.0	U	10.0	10.1		ug/L		101	75 - 125
cis-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	69 - 127
Toluene	1.0	U	10.0	11.0		ug/L		110	74 - 126
Trichloroethene	1.0	U	10.0	9.84		ug/L		98	73 - 125
Vinyl chloride	1.0	U	10.0	11.5		ug/L		115	30 - 140
trans-1,2-Dichloroethene	1.0	U	10.0	1.0	U F1	ug/L		0	69 - 131

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		58 - 135
4-Bromofluorobenzene (Surr)	93		62 - 123
Dibromofluoromethane (Surr)	97		64 - 128
Toluene-d8 (Surr)	98		71 - 118

Lab Sample ID: 180-58893-3 MSD
Matrix: Water
Analysis Batch: 189282

Client Sample ID: WG-18036-092016-SG-002
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
1,1,1-Trichloroethane	1.0	U	10.0	10.2		ug/L		102	75 - 125	1	25
cis-1,2-Dichloroethene	1.0	U	10.0	9.97		ug/L		100	69 - 127	2	20
Toluene	1.0	U	10.0	10.6		ug/L		106	74 - 126	4	25
Trichloroethene	1.0	U	10.0	10.1		ug/L		101	73 - 125	2	25
Vinyl chloride	1.0	U	10.0	10.8		ug/L		108	30 - 140	7	35
trans-1,2-Dichloroethene	1.0	U	10.0	10.5		ug/L		105	69 - 131	NC	25

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		58 - 135
4-Bromofluorobenzene (Surr)	93		62 - 123
Dibromofluoromethane (Surr)	97		64 - 128
Toluene-d8 (Surr)	99		71 - 118

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-188791/1-A
Matrix: Water
Analysis Batch: 189111

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 188791

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	5.0	U	5.0	0.057	ug/L		09/22/16 07:15	09/23/16 12:55	1
Lead	10	U	10	2.7	ug/L		09/22/16 07:15	09/23/16 12:55	1

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-188791/2-A
Matrix: Water
Analysis Batch: 189111

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 188791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	50.0	47.1		ug/L		94	85 - 115
Lead	500	478		ug/L		96	85 - 115

Lab Sample ID: 180-58893-8 MS
Matrix: Water
Analysis Batch: 189111

Client Sample ID: WG-18036-092016-SG-007
Prep Type: Total Recoverable
Prep Batch: 188791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cadmium	5.0	U	50.0	45.9		ug/L		92	70 - 130
Lead	3.5	J	500	472		ug/L		94	70 - 130

Lab Sample ID: 180-58893-8 MSD
Matrix: Water
Analysis Batch: 189111

Client Sample ID: WG-18036-092016-SG-007
Prep Type: Total Recoverable
Prep Batch: 188791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	5.0	U	50.0	45.8		ug/L		92	70 - 130	0	20

Lab Sample ID: 180-58893-8 MSD
Matrix: Water
Analysis Batch: 189182

Client Sample ID: WG-18036-092016-SG-007
Prep Type: Total Recoverable
Prep Batch: 188791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	3.5	J	500	522		ug/L		104	70 - 130	10	20

Lab Sample ID: 180-58893-9 MS
Matrix: Water
Analysis Batch: 189111

Client Sample ID: WG-18036-092016-SG-008
Prep Type: Total Recoverable
Prep Batch: 188791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cadmium	5.0	U	50.0	42.5		ug/L		85	70 - 130

Lab Sample ID: 180-58893-9 MS
Matrix: Water
Analysis Batch: 189182

Client Sample ID: WG-18036-092016-SG-008
Prep Type: Total Recoverable
Prep Batch: 188791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	50	U	500	511		ug/L		102	70 - 130

Lab Sample ID: 180-58893-9 MSD
Matrix: Water
Analysis Batch: 189111

Client Sample ID: WG-18036-092016-SG-008
Prep Type: Total Recoverable
Prep Batch: 188791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cadmium	5.0	U	50.0	42.5		ug/L		85	70 - 130	0	20

TestAmerica Pittsburgh

QC Sample Results

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-58893-9 MSD
 Matrix: Water
 Analysis Batch: 189182

Client Sample ID: WG-18036-092016-SG-008
 Prep Type: Total Recoverable
 Prep Batch: 188791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	50	U	500	514		ug/L		103	70 - 130	1	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Brausch Environmental LLC
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

GC/MS VOA

Analysis Batch: 188963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58893-1	TB-18036-092016-SG	Total/NA	Water	624	
180-58893-8	WG-18036-092016-SG-007	Total/NA	Water	624	
MB 180-188963/33	Method Blank	Total/NA	Water	624	
MB 180-188963/4	Method Blank	Total/NA	Water	624	
LCS 180-188963/1002	Lab Control Sample	Total/NA	Water	624	
180-58893-8 MS	WG-18036-092016-SG-007	Total/NA	Water	624	
180-58893-8 MSD	WG-18036-092016-SG-007	Total/NA	Water	624	

Analysis Batch: 189172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58893-2	WG-18036-092016-SG-001	Total/NA	Water	624	
MB 180-189172/4	Method Blank	Total/NA	Water	624	
LCS 180-189172/1002	Lab Control Sample	Total/NA	Water	624	
180-58894-D-10 MSD	Matrix Spike Duplicate	Total/NA	Water	624	
180-58894-E-10 MS	Matrix Spike	Total/NA	Water	624	

Analysis Batch: 189282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58893-3	WG-18036-092016-SG-002	Total/NA	Water	624	
180-58893-4	WG-18036-092016-SG-003	Total/NA	Water	624	
180-58893-5	WG-18036-092016-SG-004	Total/NA	Water	624	
180-58893-6	WG-18036-092016-SG-005	Total/NA	Water	624	
180-58893-7	WG-18036-092016-SG-006	Total/NA	Water	624	
180-58893-9	WG-18036-092016-SG-008	Total/NA	Water	624	
180-58893-10	WG-18036-092016-SG-009	Total/NA	Water	624	
180-58893-11	WG-18036-092016-SG-010	Total/NA	Water	624	
180-58893-12	WG-18036-092016-SG-011	Total/NA	Water	624	
MB 180-189282/6	Method Blank	Total/NA	Water	624	
LCS 180-189282/1002	Lab Control Sample	Total/NA	Water	624	
180-58893-3 MS	WG-18036-092016-SG-002	Total/NA	Water	624	
180-58893-3 MSD	WG-18036-092016-SG-002	Total/NA	Water	624	

Metals

Prep Batch: 188791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58893-2	WG-18036-092016-SG-001	Total Recoverable	Water	200.7	
180-58893-3	WG-18036-092016-SG-002	Total Recoverable	Water	200.7	
180-58893-4	WG-18036-092016-SG-003	Total Recoverable	Water	200.7	
180-58893-5	WG-18036-092016-SG-004	Total Recoverable	Water	200.7	
180-58893-6	WG-18036-092016-SG-005	Total Recoverable	Water	200.7	
180-58893-7	WG-18036-092016-SG-006	Total Recoverable	Water	200.7	
180-58893-8	WG-18036-092016-SG-007	Total Recoverable	Water	200.7	
180-58893-9	WG-18036-092016-SG-008	Total Recoverable	Water	200.7	
180-58893-10	WG-18036-092016-SG-009	Total Recoverable	Water	200.7	
180-58893-11	WG-18036-092016-SG-010	Total Recoverable	Water	200.7	
180-58893-12	WG-18036-092016-SG-011	Total Recoverable	Water	200.7	
MB 180-188791/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-188791/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
180-58893-8 MS	WG-18036-092016-SG-007	Total Recoverable	Water	200.7	

TestAmerica Pittsburgh

QC Association Summary

Client: Brausch Environmental LLC
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-58893-1

Metals (Continued)

Prep Batch: 188791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58893-8 MSD	WG-18036-092016-SG-007	Total Recoverable	Water	200.7	
180-58893-9 MS	WG-18036-092016-SG-008	Total Recoverable	Water	200.7	
180-58893-9 MSD	WG-18036-092016-SG-008	Total Recoverable	Water	200.7	

Analysis Batch: 189111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58893-2	WG-18036-092016-SG-001	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-3	WG-18036-092016-SG-002	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-4	WG-18036-092016-SG-003	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-5	WG-18036-092016-SG-004	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-6	WG-18036-092016-SG-005	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-7	WG-18036-092016-SG-006	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-8	WG-18036-092016-SG-007	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-9	WG-18036-092016-SG-008	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-10	WG-18036-092016-SG-009	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-11	WG-18036-092016-SG-010	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-12	WG-18036-092016-SG-011	Total Recoverable	Water	200.7 Rev 4.4	188791
MB 180-188791/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	188791
LCS 180-188791/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-8 MS	WG-18036-092016-SG-007	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-8 MSD	WG-18036-092016-SG-007	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-9 MS	WG-18036-092016-SG-008	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-9 MSD	WG-18036-092016-SG-008	Total Recoverable	Water	200.7 Rev 4.4	188791

Analysis Batch: 189182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-58893-9	WG-18036-092016-SG-008	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-10	WG-18036-092016-SG-009	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-11	WG-18036-092016-SG-010	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-12	WG-18036-092016-SG-011	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-8 MSD	WG-18036-092016-SG-007	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-9 MS	WG-18036-092016-SG-008	Total Recoverable	Water	200.7 Rev 4.4	188791
180-58893-9 MSD	WG-18036-092016-SG-008	Total Recoverable	Water	200.7 Rev 4.4	188791



180-58893 Chain of Custody

CHAIN OF CUSTODY RECORD

COC NO.: 55708

Address: 2055 Niagara Falls Blvd. N.Y. 14304 PAGE 1 OF 1

Phone: 716 297-6150 Fax:

Project No/Phase/Task Code: 18036 2014
 Project Name: BNTA-Quarterly Post Closure Monitoring
 Project Location: Buffalo Airport
 GHD Chemistry Contact: D. Tyren S. Gardner

Laboratory Name: Test America
 Lab Contact: J. U. Colussy
 Lab Location: Pittsburgh

Carrier: [Blank]
 Airbill No.: [Blank]
 Cooler No.: [Blank]

SSOW ID: [Blank]

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (g) or Comp (c)	Filtered (Y/N)	ANALYSIS REQUESTED (See Back of COC for Definitions)	Total Containers/Seals	M/MSL Test	Carrier	Total # of Containers: 54	COMMENTS/ SPECIAL INSTRUCTIONS:
	TB	WG											
1	TB	18036-092016-SG	9-20-16										
2	WG	18036-092016-SG-001	9-20-16	0910									
3	WG	18036-092016-SG-002	9-20-16	0905									
4	WG	18036-092016-SG-003	9-20-16	1030									
5	WG	18036-092016-SG-004	9-20-16	1000									
6	WG	18036-092016-SG-005	9-20-16	1115									
7	WG	18036-092016-SG-006	9-20-16	1000									
8	WG	18036-092016-SG-007	9-20-16	1220									
9	WG	18036-092016-SG-008	9-20-16	1135									
10	WG	18036-092016-SG-009	9-20-16	1350									
11	WG	18036-092016-SG-010	9-20-16	1325									
12	WG	18036-092016-SG-011	9-20-16	1500									

TAT Required in business days (use separate COCs for different TATs):
 1 Day 2 Days 3 Days 1 Week 2 Week Other:

Notes/Special Requirements:

RELINQUISHED BY: [Signature] COMPANY: GHD DATE: 9/20/16 TIME: 1605 RECEIVED BY: [Signature] COMPANY: [Signature] DATE: 9-27-16 TIME: 9:00

Distribution: [Blank] WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew

Login Sample Receipt Checklist

Client: Brausch Environmental LLC

Job Number: 180-58893-1

Login Number: 58893

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

