



CBS Corporation

Environmental Remediation
PNC Center
20 Stanwix Street, 10th Floor
Pittsburgh, PA 15222

Via Electronic and First-Class Mail

August 20, 2014

Mr. David P. Locey
New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

**Re: Monthly Status Report, July 2014
NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Locey:

On behalf of CBS Corporation (CBS) and the Niagara Frontier Transportation Authority (NFTA), CBS submits this monthly progress report on activities undertaken in July 2014 at New York State Department of Environmental Conservation (NYSDEC) Site No. 9-15-066 in Cheektowaga, New York (the Site) pursuant to the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, entered with NYSDEC (the Order). Under agreements among the Respondents to the Order, CBS is managing the Remedial Program, including the closure of the Operable Unit 2 (OU2) groundwater collection and treatment system.

1. Site Activities and Status

- A. On July 12, 2014, CBS submitted to NYSDEC a monthly report on the status of activities at the Site in June 2014.
- B. Conestoga-Rovers & Associates (CRA) conducted OU2 closure activities, including the following:
 - Removing sediment from manholes in advance of plugging (where necessary);
 - Plugging various manholes (concrete fill) in the 001, 002, and 003 segments of the groundwater collection system as follows:

- 001 Segment: all manholes;
 - 002 Segment: all manholes except CSMH-002, MH-002-01, and MH-002-02; and
 - 003 Segment: all manholes.
- Partially filling (flowable fill) piping in the lower portion of the 003 segment of the groundwater collection system; and
 - Borehole drilling and grouting of pipe bedding at identified manhole locations, including all such locations on the 002 segment of the groundwater collection system.
- C. To support the OU2 system closure, CRA operated Sump 002 and the groundwater treatment plant throughout July 2014. Water generated during sediment removal from manholes was stored in a temporary holding tank and then routed through the system for treatment and discharge.
- D. To provide an initial data set prior to completion of the OU2 closure activities, CRA collected water samples at the NFTA storm sewer manholes and inlets specified for sampling during the two years of post-closure monitoring. These samples were collected on July 11 and July 14, 2014.
- E. TestAmerica Laboratories, Inc. provided required analytical laboratory services.
- F. CRA submitted the electronic data deliverable for the June 2014 influent and effluent sampling for incorporation in the NYSDEC EQuIS database.

2. Sampling Results and Other Site Data

- A. In July 2014, the groundwater system recovered and treated an estimated 131,000 gallons.¹
- B. Attachment A provides the discharge monitoring report for July 2014 based on the effluent sample collected on July 31, 2014. Attachment B provides the analytical laboratory report for this effluent sample (Sample No. WG-18036-073114-002).
- C. Attachment B also provides the analytical laboratory report for an influent sample from pumping (Sample No. WG-18036-073114-001) collected on July 31, 2014.

¹ This quantity is an estimate based on flow meter readings provided by CRA.

- D. In reviewing the treatment system effluent monitoring information for July 2014, please note the following:
- Flow data are estimated from periodic on-site readings. The monthly total and maximum daily flows are extrapolated from these data.
 - The pH data are provided by the submitted laboratory sample and periodic on-site readings. Effluent pH data are reported only for measurements taken while the treatment pump is operating and the system is actively discharging.
 - The reported daily maximum values (pounds per day) are calculated using the maximum estimated daily flow and the results of the monthly effluent monitoring, irrespective of whether the actual maximum daily flow occurred on the day of sampling.
- E. For the July 2014 reporting period, the effluent complied with all discharge limitations except for chromium. The reported effluent chromium concentration was 160 micrograms per liter ($\mu\text{g/L}$) compared to an effluent limitation of 99 $\mu\text{g/L}$. Chromium exceedances have not previously been observed, and the cause of the exceedance in the July 2014 sampling is not known. By comparison, the influent chromium concentration was 120 $\mu\text{g/L}$. The treatment system is not designed for chromium removal.
- F. Tables 1 through 3 summarize the data from the storm sewer sampling conducted on July 11 and July 14, 2014 corresponding to the 001, 002, and 003 segments of the groundwater collection system, respectively. These tables also include the results of prior water sampling at these locations. Sampling locations are shown in Figure 1, and Attachment C provides the analytical laboratory reports from the July 2014 storm sewer sampling.

3. Upcoming Activities

- A. CRA will submit the electronic data deliverable for the July 2014 storm water, influent, and effluent sampling for incorporation in the NYSDEC EQuIS database.
- B. CRA will continue efforts to implement the approved work plan for closure of the OU2 groundwater collection and treatment system. Scheduled work activities include the following:
- Grouting of pipe bedding at designated manholes on the 001 and 003 segments of the groundwater collection system;
 - Plugging remaining open manholes; and

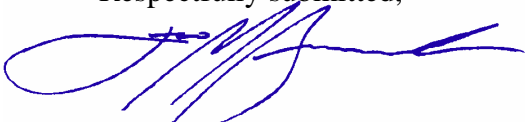
- Partially filling (flowable fill) piping in the lower portion of the 002 segment of the groundwater collection system.
- C. Encotech, Inc. will dismantle the groundwater treatment system.

4. Technical and Schedule Issues

- A. Some field delays have occurred in the course of implementing the OU2 closure program. The Site work is now scheduled to be completed in mid-October 2014.
- B. There are no unresolved technical or operational issues problems affecting the completion of the OU2 groundwater collection and treatment system closure.

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report or other project matters, please do not hesitate to contact me.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:
Attachments

cc: Christine D'Aloise, NFTA
Tim Carvana, NFTA
M. G. Graham, Esq.
K. P. Lynch, CRA
W. D. Wall, Esq.

TABLES

Table 1
NFTA Storm Sewer Sampling Results - 001 System Area
Site No. 9-15-066, Cheektowaga, New York

Parameter	Units	MH-1A			MH-1B		MH-1C	
		12/18/08	04/16/09	07/14/14	04/16/09	07/14/14	04/16/09	07/14/14
Estimated flow	gpm	15	14	NA	14	NA	S	NA
pH	s.u.	NA	NA	7.90	NA	8.06	NA	8.18
Total suspended solids	mg/L	NA	NA	2.4	NA	7.6	NA	8.0
Metals:								
Cadmium	µg/L	NA	1.3 J	0.61 J	1.3 J	5.0 U	5.0 U	5.0 U
Chromium	µg/L	NA	3.0 J	1.4 J	5.0 U	5.0 U	5.0 U	5.0 U
Lead	µg/L	NA	6.1	NA	3.0 U	NA	3.0 U	NA
Volatile Organic Compounds:								
1,2-dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-dichloroethylene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.21 J	0.20 J	1.0 U	0.26 J	1.0 U	0.20 J	1.0 U
Tetrachloroethylene	µg/L	0.71 J	0.94 J	1.9	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	µg/L	1.0 U	1.0 U	1.0 U	0.23 J	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA

Notes:

1. For manhole locations, see attached sketch.
2. "NA" indicates not available.
3. "S" indicates water present, but no discernible flow.

4. Data Legend:

Detections and estimated values are in **bold-face** type.

Data Qualifiers:

U - not detected at indicated reporting limit.

J - estimated concentration above minimum detection limit but below reporting limit.

Table 2
NFTA Storm Sewer Sampling Results - 002 System Area
Site No. 9-15-066, Cheektowaga, New York

Parameter	Units	MH-2A			MH-2B			MH-2C		MH-2D	
		12/18/08	04/16/09	07/11/14	12/18/08	04/16/09	07/11/14	04/16/09	07/11/14	04/16/09	07/11/14
Estimated flow	gpm	22	7.0	NA	14	7.8	NA	0.1	NA	S	NA
pH	s.u.	NA	NA	8.69	NA	NA	11.7	NA	9.14	NA	8.8
Total suspended solids	mg/L	NA	NA	30	NA	NA	6.4	NA	310	NA	62
Metals:											
Cadmium	µg/L	NA	5.0 U	5 U	NA	5.0 U	5 U	5.0 U	5 U	0.52 J	5 U
Chromium	µg/L	NA	5.0 U	2.2 J	NA	5.3	5.7	3.2 J	6.0	29	4.0 J
Lead	µg/L	NA	3.0 U	NA	NA	4.8	NA	3.0 U	NA	52	NA
Volatile Organic Compounds:											
1,2-dichlorobenzene	µg/L	1.0 U	1.0 U	1 U	1.0 U	1.0 U	2 U	1.0 U	2 U	1.0 U	1 U
cis-1,2-dichloroethylene	µg/L	30	20	2.3	36	52	25	12	25	20	2.9
Methylene Chloride	µg/L	1.0 U	1.0 U	0.50 JB	1.0 U	1.0 U	1.4 JB	1.0 U	1.2 JB	1.0 U	0.51 JB
Toluene	µg/L	1.0 U	1.0 U	1 U	0.36 J	0.39 J	2 U	1.0 U	2 U	0.15 J	1 U
Tetrachloroethylene	µg/L	0.88 J	1.0 U	1 U	15	19	5.7	5.4	6.6 J	1.0 U	0.2 J
Trichloroethylene	µg/L	42	49	18	75	150	41	34	46	71	20
Vinyl chloride	µg/L	NA	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA

Notes:

1. For manhole locations, see attached sketch.
2. "NA" indicates not available.
3. "S" indicates water present, but no discernible flow.
4. Data Legend:

Detections and estimated values are in **bold-face** type.

Data Qualifiers:

U - not detected at indicated reporting limit.

J - estimated concentration above minimum detection limit but below reporting limit.

B - constituent detected in corresponding blank sample.

Table 3
NFTA Storm Sewer Sampling Results - 003 System Area
Site No. 9-15-066, Cheektowaga, New York

Parameter	Units	MH-3A			MH-3B	MH-3C
		12/18/08	04/16/09	07/11/14	07/11/14	07/11/14
Estimated flow	gpm	5.0	5.0	NA	NA	NA
pH	s.u.	NA	NA	9.56	8.88	8.67
Total suspended solids	mg/L	NA	NA	2.4	13	160
Metals:						
Cadmium	µg/L	NA	5.0 U	5 U	5 U	5 U
Chromium	µg/L	NA	11.5	5.6	1.4 J	3.1 J
Lead	µg/L	NA	3.0 U	NA	NA	NA
Volatile Organic Compounds:						
1,2-dichlorobenzene	µg/L	2.5 U	12 U	25 U	1 U	1 U
cis-1,2-dichloroethylene	µg/L	37	63	52	1 U	1 U
Methylene Chloride	µg/L	3 U	12 U	16 JB	0.48 JB	0.48 JB
Toluene	µg/L	3 U	12 U	25 U	1 U	1 U
Tetrachloroethylene	µg/L	1.2 J	12 U	25 U	1 U	1 U
Trichloroethylene	µg/L	160	450	370	0.95 J	1 U
Vinyl chloride	µg/L	NA	12 U	NA	NA	NA

Notes:

1. For manhole locations, see attached sketch.
2. "NA" indicates not available.

3. Data Legend:

Detections and estimated values are in **bold-face** type.

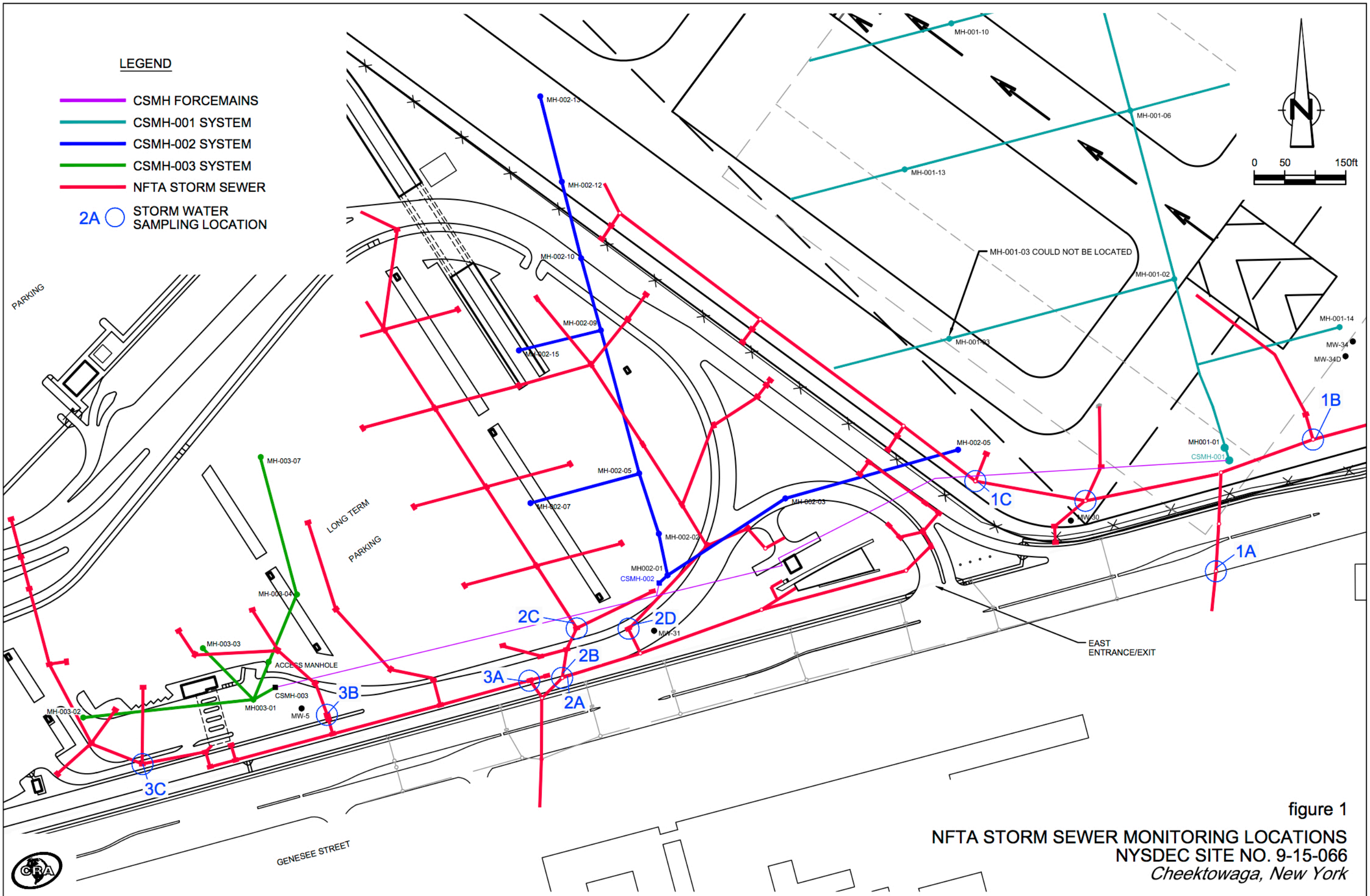
Data Qualifiers:

U - not detected at indicated reporting limit.

J - estimated concentration above minimum detection limit but below reporting limit.

B - constituent detected in corresponding blank sample.

FIGURE



ATTACHMENT A
DISCHARGE MONITORING REPORT
JULY 2014

Discharge Monitoring Data
Outfall 001 - Treated Groundwater Remediation Discharge
NYSDEC Site No. 9-15-006
Cheektowaga, New York

Reporting Month & Year **Jul-14**

Parameter		Daily Minimum	Daily Maximum	Units	Daily Maximum (lbs/day)	Measurement Frequency	Sample Type
Flow	Monitoring Result		9,100	gpd		1	Estimate
	Discharge Limitation		28,800	gpd		Continuous	Meter
pH	Monitoring Result	6.62	7.77	s.u.		6	Grab
	Discharge Limitation	6.5	8.5	s.u.		Weekly	Grab
Total suspended solids	Monitoring Result		3.2	mg/L	0.24	1	Grab
	Discharge Limitation		20	mg/L		Monthly	Grab
Toluene	Monitoring Result		< 1.0	ug/L	< 0.0001	1	Grab
	Discharge Limitation		5	ug/L		Monthly	Grab
Methylene chloride	Monitoring Result		< 1.0	ug/L	< 0.0001	1	Grab
	Discharge Limitation		10	ug/L		Monthly	Grab
1,2-dichlorobenzene	Monitoring Result		< 1.0	ug/L	< 0.0001	1	Grab
	Discharge Limitation		5	ug/L		Monthly	Grab
cis-1,2-dichloroethylene	Monitoring Result		< 1.0	ug/L	< 0.0001	1	Grab
	Discharge Limitation		10	ug/L		Monthly	Grab
Trichloroethylene	Monitoring Result		< 1.0	ug/L	< 0.0001	1	Grab
	Discharge Limitation		10	ug/L		Monthly	Grab
Tetrachloroethylene	Monitoring Result		< 1.0	ug/L	< 0.0001	1	Grab
	Discharge Limitation		50	ug/L		Monthly	Grab
Cadmium	Monitoring Result		< 5.0	ug/L	< 0.0004	1	Grab
	Discharge Limitation		3	ug/L		Monthly	Grab
Chromium	Monitoring Result		160	ug/L	0.012	1	Grab
	Discharge Limitation		99	ug/L		Monthly	Grab

ATTACHMENT B
ANALYTICAL LABORATORY REPORT
JULY 2014 INFLUENT AND EFFLUENT SAMPLES

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: 180-35347-1

Client Project/Site: Buffalo Airport

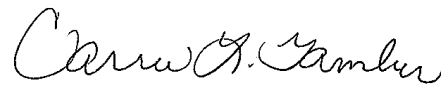
For:

Leo Brausch Consulting

131 Wedgewood Drive

Gibsonia, Pennsylvania 15044

Attn: Mr. Leo Brausch



Authorized for release by:

8/14/2014 2:27:43 PM

Carrie Gamber, Senior Project Manager

(412)963-2428

carrie.gamber@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: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

Job ID: 180-35347-1

Laboratory: TestAmerica Pittsburgh

Narrative

CASE NARRATIVE

Client: Leo Brausch Consulting

Project: Buffalo Airport

Report Number: 180-35347-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/01/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.3 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: WG-18036-073114-001 (180-35347-1). Elevated reporting limits (RLs) are provided.

METALS

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

GENERAL CHEMISTRY

The pH of sample WG-18036-073114-001 was noted to be greater than 12. The pH of this sample was verified to be greater than 12 with pH paper from both unpreserved bottles submitted. All results are reported with this narration.



Definitions/Glossary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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: 180-35347-1

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	06-27-15
California	NELAP	9	4224CA	03-31-14 *
Connecticut	State Program	1	PH-0688	09-30-14 *
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-15
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-14 *
West Virginia DEP	State Program	3	142	01-31-15
Wisconsin	State Program	5	998027800	08-31-14

* Certification renewal pending - certification considered valid.



Sample Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-35347-1	WG-18036-073114-001	Water	07/31/14 09:45	08/01/14 08:50
180-35347-2	WG-18036-073114-002	Water	07/31/14 10:00	08/01/14 08:50

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Method Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 H+ B	pH	SM	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

SM = "Standard Methods For The Examination Of Water And Wastewater",

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: 180-35347-1

Client Sample ID: WG-18036-073114-001

Lab Sample ID: 180-35347-1

Date Collected: 07/31/14 09:45

Matrix: Water

Date Received: 08/01/14 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		3	5 mL	5 mL	114513	08/13/14 14:16	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	113449	08/03/14 08:51	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	113589	08/04/14 22:18	RJG	TAL PIT
Instrument ID: C										
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	113850	08/06/14 16:46	ALF	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	113645	08/05/14 13:34	AJB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WG-18036-073114-002

Lab Sample ID: 180-35347-2

Date Collected: 07/31/14 10:00

Matrix: Water

Date Received: 08/01/14 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	114346	08/12/14 20:10	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	113449	08/03/14 08:51	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	113589	08/04/14 22:39	RJG	TAL PIT
Instrument ID: C										
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	113850	08/06/14 16:46	ALF	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	113645	08/05/14 13:37	AJB	TAL PIT
Instrument ID: NOEQUIP										

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

SLB = Sandy Becker

Batch Type: Analysis

AJB = Amanda Brunick

ALF = Ato Foulland

DLF = Donald Ferguson

RJG = Rob Good

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

Client Sample ID: WG-18036-073114-001

Lab Sample ID: 180-35347-1

Date Collected: 07/31/14 09:45

Matrix: Water

Date Received: 08/01/14 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.7	J	3.0	0.45	ug/L			08/13/14 14:16	3
Tetrachloroethene	3.0	U	3.0	0.45	ug/L			08/13/14 14:16	3
Toluene	3.0	U	3.0	0.45	ug/L			08/13/14 14:16	3
Trichloroethene	53		3.0	0.43	ug/L			08/13/14 14:16	3
1,2-Dichlorobenzene	3.0	U	3.0	0.46	ug/L			08/13/14 14:16	3
cis-1,2-Dichloroethene	9.7		3.0	0.71	ug/L			08/13/14 14:16	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		58 - 135		08/13/14 14:16	3
4-Bromofluorobenzene (Surr)	90		62 - 123		08/13/14 14:16	3
Toluene-d8 (Surr)	102		71 - 118		08/13/14 14:16	3
Dibromofluoromethane (Surr)	116		64 - 128		08/13/14 14:16	3

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		08/03/14 08:51	08/04/14 22:18	1
Chromium	120		5.0	0.77	ug/L		08/03/14 08:51	08/04/14 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	35		2.0	2.0	mg/L			08/06/14 16:46	1
pH	12.2	HF	0.100	0.100	SU			08/05/14 13:34	1

Client Sample ID: WG-18036-073114-002

Lab Sample ID: 180-35347-2

Date Collected: 07/31/14 10:00

Matrix: Water

Date Received: 08/01/14 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			08/12/14 20:10	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			08/12/14 20:10	1
Toluene	1.0	U	1.0	0.15	ug/L			08/12/14 20:10	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			08/12/14 20:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			08/12/14 20:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			08/12/14 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		58 - 135		08/12/14 20:10	1
4-Bromofluorobenzene (Surr)	84		62 - 123		08/12/14 20:10	1
Toluene-d8 (Surr)	96		71 - 118		08/12/14 20:10	1
Dibromofluoromethane (Surr)	122		64 - 128		08/12/14 20:10	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		08/03/14 08:51	08/04/14 22:39	1
Chromium	160		5.0	0.77	ug/L		08/03/14 08:51	08/04/14 22:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.2		2.0	2.0	mg/L			08/06/14 16:46	1
pH	7.45	HF	0.100	0.100	SU			08/05/14 13:37	1

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

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

Lab Sample ID: MB 180-114346/8

Matrix: Water

Analysis Batch: 114346

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			08/12/14 11:42	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			08/12/14 11:42	1
Toluene	1.0	U	1.0	0.15	ug/L			08/12/14 11:42	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			08/12/14 11:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			08/12/14 11:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			08/12/14 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		58 - 135		08/12/14 11:42	1
4-Bromofluorobenzene (Surr)	85		62 - 123		08/12/14 11:42	1
Toluene-d8 (Surr)	103		71 - 118		08/12/14 11:42	1
Dibromofluoromethane (Surr)	116		64 - 128		08/12/14 11:42	1

Lab Sample ID: LCS 180-114346/1006

Matrix: Water

Analysis Batch: 114346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	10.0	10.6		ug/L		106	60 - 140
Tetrachloroethene	10.0	10.3		ug/L		103	73 - 127
Toluene	10.0	10.4		ug/L		104	74 - 126
Trichloroethene	10.0	10.2		ug/L		102	73 - 125
1,2-Dichlorobenzene	10.0	9.28		ug/L		93	68 - 127
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	69 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		58 - 135
4-Bromofluorobenzene (Surr)	87		62 - 123
Toluene-d8 (Surr)	91		71 - 118
Dibromofluoromethane (Surr)	92		64 - 128

Lab Sample ID: LCSD 180-114346/11

Matrix: Water

Analysis Batch: 114346

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
Methylene Chloride	10.0	9.77		ug/L		98	60 - 140	8	25
Tetrachloroethene	10.0	10.8		ug/L		108	73 - 127	5	25
Toluene	10.0	10.9		ug/L		109	74 - 126	4	25
Trichloroethene	10.0	10.3		ug/L		103	73 - 125	1	25
1,2-Dichlorobenzene	10.0	9.87		ug/L		99	68 - 127	6	35
cis-1,2-Dichloroethene	10.0	9.69		ug/L		97	69 - 127	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		58 - 135
4-Bromofluorobenzene (Surr)	93		62 - 123
Toluene-d8 (Surr)	98		71 - 118

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

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

Lab Sample ID: LCSD 180-114346/11
Matrix: Water
Analysis Batch: 114346

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCSD Qualifier</i>	<i>LCSD Limits</i>
<i>Dibromofluoromethane (Surr)</i>	92		64 - 128

Lab Sample ID: MB 180-114513/6
Matrix: Water
Analysis Batch: 114513

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

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Methylene Chloride	1.0	U	1.0	0.15	ug/L			08/13/14 11:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			08/13/14 11:12	1
Toluene	1.0	U	1.0	0.15	ug/L			08/13/14 11:12	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			08/13/14 11:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			08/13/14 11:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			08/13/14 11:12	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	114		58 - 135		08/13/14 11:12	1
<i>4-Bromofluorobenzene (Surr)</i>	85		62 - 123		08/13/14 11:12	1
<i>Toluene-d8 (Surr)</i>	104		71 - 118		08/13/14 11:12	1
<i>Dibromofluoromethane (Surr)</i>	113		64 - 128		08/13/14 11:12	1

Lab Sample ID: LCS 180-114513/1002
Matrix: Water
Analysis Batch: 114513

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
Methylene Chloride	10.0	10.1		ug/L		101	60 - 140
Tetrachloroethene	10.0	11.0		ug/L		110	73 - 127
Toluene	10.0	10.8		ug/L		108	74 - 126
Trichloroethene	10.0	9.78		ug/L		98	73 - 125
1,2-Dichlorobenzene	10.0	9.89		ug/L		99	68 - 127
cis-1,2-Dichloroethene	10.0	9.27		ug/L		93	69 - 127

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	88		58 - 135
<i>4-Bromofluorobenzene (Surr)</i>	86		62 - 123
<i>Toluene-d8 (Surr)</i>	96		71 - 118
<i>Dibromofluoromethane (Surr)</i>	92		64 - 128

Lab Sample ID: LCSD 180-114513/9
Matrix: Water
Analysis Batch: 114513

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Methylene Chloride	10.0	10.0		ug/L		100	60 - 140	0	25
Tetrachloroethene	10.0	11.0		ug/L		110	73 - 127	1	25
Toluene	10.0	12.3		ug/L		123	74 - 126	13	25
Trichloroethene	10.0	10.3		ug/L		103	73 - 125	5	25

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

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

Lab Sample ID: LCSD 180-114513/9

Matrix: Water

Analysis Batch: 114513

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
1,2-Dichlorobenzene	10.0	9.21		ug/L		92	68 - 127	7	35
cis-1,2-Dichloroethene	10.0	9.84		ug/L		98	69 - 127	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		58 - 135
4-Bromofluorobenzene (Surr)	97		62 - 123
Toluene-d8 (Surr)	116		71 - 118
Dibromofluoromethane (Surr)	101		64 - 128

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-113449/1-A

Matrix: Water

Analysis Batch: 113589

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 113449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		08/03/14 08:51	08/04/14 20:53	1
Chromium	5.0	U	5.0	0.77	ug/L		08/03/14 08:51	08/04/14 20:53	1

Lab Sample ID: LCS 180-113449/2-A

Matrix: Water

Analysis Batch: 113589

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 113449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	50.2		ug/L		100	85 - 115
Chromium	200	202		ug/L		101	85 - 115

Lab Sample ID: 180-35347-1 MS

Matrix: Water

Analysis Batch: 113589

Client Sample ID: WG-18036-073114-001

Prep Type: Total Recoverable

Prep Batch: 113449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	5.0	U	50.0	53.0		ug/L		106	70 - 130
Chromium	120		200	307		ug/L		94	70 - 130

Lab Sample ID: 180-35347-1 MSD

Matrix: Water

Analysis Batch: 113589

Client Sample ID: WG-18036-073114-001

Prep Type: Total Recoverable

Prep Batch: 113449

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	54.3		ug/L		109	70 - 130	2	20
Chromium	120		200	321		ug/L		101	70 - 130	4	20

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-113850/2
Matrix: Water
Analysis Batch: 113850

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.0	U	2.0	2.0	mg/L	-		08/06/14 16:46	1

Lab Sample ID: LCS 180-113850/1
Matrix: Water
Analysis Batch: 113850

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	53.6	44.0		mg/L	-	82	80 - 120

Lab Sample ID: 240-40208-F-2 DU
Matrix: Water
Analysis Batch: 113850

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	18		17.2		mg/L	-	2	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 180-113645/1
Matrix: Water
Analysis Batch: 113645

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.030		SU	-	100	99 - 101

Lab Sample ID: 180-35288-B-1 DU
Matrix: Water
Analysis Batch: 113645

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.88		6.940		SU	-	0.9	2

QC Association Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-35347-1

GC/MS VOA

Analysis Batch: 114346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-35347-2	WG-18036-073114-002	Total/NA	Water	624	
LCS 180-114346/1006	Lab Control Sample	Total/NA	Water	624	
LCS D 180-114346/11	Lab Control Sample Dup	Total/NA	Water	624	
MB 180-114346/8	Method Blank	Total/NA	Water	624	

Analysis Batch: 114513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-35347-1	WG-18036-073114-001	Total/NA	Water	624	
LCS 180-114513/1002	Lab Control Sample	Total/NA	Water	624	
LCS D 180-114513/9	Lab Control Sample Dup	Total/NA	Water	624	
MB 180-114513/6	Method Blank	Total/NA	Water	624	

Metals

Prep Batch: 113449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-35347-1	WG-18036-073114-001	Total Recoverable	Water	200.7	
180-35347-1 MS	WG-18036-073114-001	Total Recoverable	Water	200.7	
180-35347-1 MSD	WG-18036-073114-001	Total Recoverable	Water	200.7	
180-35347-2	WG-18036-073114-002	Total Recoverable	Water	200.7	
LCS 180-113449/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
MB 180-113449/1-A	Method Blank	Total Recoverable	Water	200.7	

Analysis Batch: 113589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-35347-1	WG-18036-073114-001	Total Recoverable	Water	200.7 Rev 4.4	113449
180-35347-1 MS	WG-18036-073114-001	Total Recoverable	Water	200.7 Rev 4.4	113449
180-35347-1 MSD	WG-18036-073114-001	Total Recoverable	Water	200.7 Rev 4.4	113449
180-35347-2	WG-18036-073114-002	Total Recoverable	Water	200.7 Rev 4.4	113449
LCS 180-113449/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	113449
MB 180-113449/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	113449

General Chemistry

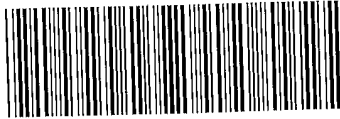
Analysis Batch: 113645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-35288-B-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
180-35347-1	WG-18036-073114-001	Total/NA	Water	SM 4500 H+ B	
180-35347-2	WG-18036-073114-002	Total/NA	Water	SM 4500 H+ B	
LCS 180-113645/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 113850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-35347-1	WG-18036-073114-001	Total/NA	Water	SM 2540D	
180-35347-2	WG-18036-073114-002	Total/NA	Water	SM 2540D	
240-40208-F-2 DU	Duplicate	Total/NA	Water	SM 2540D	
LCS 180-113850/1	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 180-113850/2	Method Blank	Total/NA	Water	SM 2540D	

TestAmerica Pittsburgh



180-35347 Waybill

ORIGIN ID: BUEA (719) 808-0884
WRA, INC
2055 NIAGARA FALLS BLVD STE 3
NIAGARA FALLS, NY 143045702
UNITED STATES US

SHIP DATE: 31 JUL 14
ACTWGT: 27.6 LB
CAD: 7POS1501
DIMS: 18x12x10 IN
BILL SENDER

TO
TEST AMERICA
301 ALPHA DR
PITTSBURGH PA 15238

(412) 963-7068
REF: DEPT:

Uncorrected temp 2.3 °C
Thermometer ID S
CF φ Initials RJ
PT-WI-SR-001 effective 7/28/13

RT **197**
FZ **199**

FRI - 01 AUG 10:30A
PRIORITY OVERNIGHT

TRK# **8695 9663 0379**
0200

XH AGCA

15238
PA-US **PIT**



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- 8
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- 10
- 11
- 12
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Login Sample Receipt Checklist

Client: Leo Brausch Consulting

Job Number: 180-35347-1

Login Number: 35347

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Neri, Tom

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.	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ATTACHMENT C
ANALYTICAL LABORATORY REPORTS
JULY 2014 STORM SEWER SAMPLES

Sample Key

Sample No.	Manhole No.
WS-18036-071114-001	2B
WS-18036-071114-002	3A
WS-18036-071114-003	2A
WS-18036-071114-004	2D
WS-18036-071114-005	2C
WS-18036-071114-006	3C
WS-18036-071114-007	3B
WS-18036-071414-008	1B
WS-18036-071414-009	1C
WS-18036-071414-010	1A

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: 180-34799-1

Client Project/Site: Buffalo Airport

For:

Leo Brausch Consulting

131 Wedgewood Drive

Gibsonia, Pennsylvania 15044

Attn: Mr. Leo Brausch



Authorized for release by:

7/21/2014 1:08:41 PM

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

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results through

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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: 180-34799-1

Job ID: 180-34799-1

Laboratory: TestAmerica Pittsburgh

Narrative

**Job Narrative
180-34799-1**

Receipt

The samples were received on 7/12/2014 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: WS-18036-071114-001 (180-34799-1), WS-18036-071114-002 (180-34799-2), and WS-18036-071114-005 (180-34799-5). Elevated reporting limits (RLs) are provided.

Metals

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

General Chemistry

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

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Definitions/Glossary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
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.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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: 180-34799-1

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	06-27-15
California	NELAP	9	4224CA	03-31-14 *
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-14 *
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-14
West Virginia DEP	State Program	3	142	01-31-15
Wisconsin	State Program	5	998027800	08-31-14

* Certification renewal pending - certification considered valid.



Sample Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-34799-1	WS-18036-071114-001	Water	07/11/14 13:00	07/12/14 09:05
180-34799-2	WS-18036-071114-002	Water	07/11/14 13:30	07/12/14 09:05
180-34799-3	WS-18036-071114-003	Water	07/11/14 14:00	07/12/14 09:05
180-34799-4	WS-18036-071114-004	Water	07/11/14 14:15	07/12/14 09:05
180-34799-5	WS-18036-071114-005	Water	07/11/14 14:30	07/12/14 09:05
180-34799-6	WS-18036-071114-006	Water	07/11/14 14:45	07/12/14 09:05
180-34799-7	WS-18036-071114-007	Water	07/11/14 15:15	07/12/14 09:05



Method Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 H+ B	pH	SM	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

SM = "Standard Methods For The Examination Of Water And Wastewater",

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: 180-34799-1

Client Sample ID: WS-18036-071114-001

Lab Sample ID: 180-34799-1

Date Collected: 07/11/14 13:00

Matrix: Water

Date Received: 07/12/14 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		2	5 mL	5 mL	111739	07/17/14 16:04	DLF	TAL PIT
		Instrument ID: CHHP5								
Total Recoverable	Prep	200.7			50 mL	50 mL	111733	07/17/14 07:58	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	111977	07/18/14 18:43	RJG	TAL PIT
		Instrument ID: C								
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	111680	07/16/14 19:53	ALF	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111493	07/15/14 11:14	AJB	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WS-18036-071114-002

Lab Sample ID: 180-34799-2

Date Collected: 07/11/14 13:30

Matrix: Water

Date Received: 07/12/14 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		25	5 mL	5 mL	111739	07/17/14 16:55	DLF	TAL PIT
		Instrument ID: CHHP5								
Total Recoverable	Prep	200.7			50 mL	50 mL	111733	07/17/14 07:58	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	111977	07/18/14 19:14	RJG	TAL PIT
		Instrument ID: C								
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	111680	07/16/14 19:53	ALF	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111493	07/15/14 11:11	AJB	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WS-18036-071114-003

Lab Sample ID: 180-34799-3

Date Collected: 07/11/14 14:00

Matrix: Water

Date Received: 07/12/14 09:05

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	111739	07/17/14 17:19	DLF	TAL PIT
		Instrument ID: CHHP5								
Total Recoverable	Prep	200.7			50 mL	50 mL	111733	07/17/14 07:58	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	111977	07/18/14 19:19	RJG	TAL PIT
		Instrument ID: C								
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	111680	07/16/14 19:53	ALF	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111493	07/15/14 11:08	AJB	TAL PIT
		Instrument ID: NOEQUIP								

TestAmerica Pittsburgh

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

Client Sample ID: WS-18036-071114-004

Lab Sample ID: 180-34799-4

Date Collected: 07/11/14 14:15

Matrix: Water

Date Received: 07/12/14 09:05

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	111739	07/17/14 17:43	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	111733	07/17/14 07:58	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	111977	07/18/14 19:24	RJG	TAL PIT
Instrument ID: C										
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	111680	07/16/14 19:53	ALF	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111493	07/15/14 11:05	AJB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WS-18036-071114-005

Lab Sample ID: 180-34799-5

Date Collected: 07/11/14 14:30

Matrix: Water

Date Received: 07/12/14 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		2	5 mL	5 mL	111739	07/17/14 18:07	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	111733	07/17/14 07:58	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	111977	07/18/14 19:29	RJG	TAL PIT
Instrument ID: C										
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	111680	07/16/14 19:53	ALF	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111493	07/15/14 11:02	AJB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WS-18036-071114-006

Lab Sample ID: 180-34799-6

Date Collected: 07/11/14 14:45

Matrix: Water

Date Received: 07/12/14 09:05

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	111739	07/17/14 18:31	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	111733	07/17/14 07:58	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	111977	07/18/14 19:35	RJG	TAL PIT
Instrument ID: C										
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	111680	07/16/14 19:53	ALF	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111493	07/15/14 10:59	AJB	TAL PIT
Instrument ID: NOEQUIP										

TestAmerica Pittsburgh

Lab Chronicle

Client: Leo Brausch Consulting
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

Client Sample ID: WS-18036-071114-007

Lab Sample ID: 180-34799-7

Date Collected: 07/11/14 15:15

Matrix: Water

Date Received: 07/12/14 09:05

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	111739	07/17/14 18:55	DLF	TAL PIT
Instrument ID: CHHP5										
Total Recoverable	Prep	200.7			50 mL	50 mL	111733	07/17/14 07:58	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	111977	07/18/14 19:40	RJG	TAL PIT
Instrument ID: C										
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	111680	07/16/14 19:53	ALF	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111493	07/15/14 10:53	AJB	TAL PIT
Instrument ID: NOEQUIP										

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

SLB = Sandy Becker

Batch Type: Analysis

AJB = Amanda Brunick

ALF = Ato Foulland

DLF = Donald Ferguson

RJG = Rob Good

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

Client Sample ID: WS-18036-071114-001

Lab Sample ID: 180-34799-1

Date Collected: 07/11/14 13:00

Matrix: Water

Date Received: 07/12/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.4	J B	2.0	0.30	ug/L			07/17/14 16:04	2
Tetrachloroethene	5.7		2.0	0.30	ug/L			07/17/14 16:04	2
Toluene	2.0	U	2.0	0.30	ug/L			07/17/14 16:04	2
Trichloroethene	41		2.0	0.29	ug/L			07/17/14 16:04	2
1,2-Dichlorobenzene	2.0	U	2.0	0.30	ug/L			07/17/14 16:04	2
cis-1,2-Dichloroethene	25		2.0	0.47	ug/L			07/17/14 16:04	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		58 - 135		07/17/14 16:04	2
4-Bromofluorobenzene (Surr)	85		62 - 123		07/17/14 16:04	2
Toluene-d8 (Surr)	100		71 - 118		07/17/14 16:04	2
Dibromofluoromethane (Surr)	95		64 - 128		07/17/14 16:04	2

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		07/17/14 07:58	07/18/14 18:43	1
Chromium	5.7		5.0	0.77	ug/L		07/17/14 07:58	07/18/14 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	6.4		2.0	2.0	mg/L			07/16/14 19:53	1
pH	11.7	HF	0.100	0.100	SU			07/15/14 11:14	1

Client Sample ID: WS-18036-071114-002

Lab Sample ID: 180-34799-2

Date Collected: 07/11/14 13:30

Matrix: Water

Date Received: 07/12/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	16	J B	25	3.7	ug/L			07/17/14 16:55	25
Tetrachloroethene	25	U	25	3.7	ug/L			07/17/14 16:55	25
Toluene	25	U	25	3.8	ug/L			07/17/14 16:55	25
Trichloroethene	370		25	3.6	ug/L			07/17/14 16:55	25
1,2-Dichlorobenzene	25	U	25	3.8	ug/L			07/17/14 16:55	25
cis-1,2-Dichloroethene	52		25	5.9	ug/L			07/17/14 16:55	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		58 - 135		07/17/14 16:55	25
4-Bromofluorobenzene (Surr)	83		62 - 123		07/17/14 16:55	25
Toluene-d8 (Surr)	100		71 - 118		07/17/14 16:55	25
Dibromofluoromethane (Surr)	106		64 - 128		07/17/14 16:55	25

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		07/17/14 07:58	07/18/14 19:14	1
Chromium	5.6		5.0	0.77	ug/L		07/17/14 07:58	07/18/14 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.4		2.0	2.0	mg/L			07/16/14 19:53	1
pH	9.56	HF	0.100	0.100	SU			07/15/14 11:11	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

Client Sample ID: WS-18036-071114-003

Lab Sample ID: 180-34799-3

Date Collected: 07/11/14 14:00

Matrix: Water

Date Received: 07/12/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.50	J B	1.0	0.15	ug/L			07/17/14 17:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			07/17/14 17:19	1
Toluene	1.0	U	1.0	0.15	ug/L			07/17/14 17:19	1
Trichloroethene	18		1.0	0.14	ug/L			07/17/14 17:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			07/17/14 17:19	1
cis-1,2-Dichloroethene	2.3		1.0	0.24	ug/L			07/17/14 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		58 - 135					07/17/14 17:19	1
4-Bromofluorobenzene (Surr)	81		62 - 123					07/17/14 17:19	1
Toluene-d8 (Surr)	97		71 - 118					07/17/14 17:19	1
Dibromofluoromethane (Surr)	104		64 - 128					07/17/14 17:19	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	0.13	ug/L		07/17/14 07:58	07/18/14 19:19	1
Chromium	2.2	J	5.0	0.77	ug/L		07/17/14 07:58	07/18/14 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	30		2.0	2.0	mg/L			07/16/14 19:53	1
pH	8.69	HF	0.100	0.100	SU			07/15/14 11:08	1

Client Sample ID: WS-18036-071114-004

Lab Sample ID: 180-34799-4

Date Collected: 07/11/14 14:15

Matrix: Water

Date Received: 07/12/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.51	J B	1.0	0.15	ug/L			07/17/14 17:43	1
Tetrachloroethene	0.20	J	1.0	0.15	ug/L			07/17/14 17:43	1
Toluene	1.0	U	1.0	0.15	ug/L			07/17/14 17:43	1
Trichloroethene	20		1.0	0.14	ug/L			07/17/14 17:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			07/17/14 17:43	1
cis-1,2-Dichloroethene	2.9		1.0	0.24	ug/L			07/17/14 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		58 - 135					07/17/14 17:43	1
4-Bromofluorobenzene (Surr)	80		62 - 123					07/17/14 17:43	1
Toluene-d8 (Surr)	94		71 - 118					07/17/14 17:43	1
Dibromofluoromethane (Surr)	102		64 - 128					07/17/14 17:43	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	0.13	ug/L		07/17/14 07:58	07/18/14 19:24	1
Chromium	4.0	J	5.0	0.77	ug/L		07/17/14 07:58	07/18/14 19:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	62		2.0	2.0	mg/L			07/16/14 19:53	1
pH	8.80	HF	0.100	0.100	SU			07/15/14 11:05	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

Client Sample ID: WS-18036-071114-005

Lab Sample ID: 180-34799-5

Date Collected: 07/11/14 14:30

Matrix: Water

Date Received: 07/12/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.2	J B	2.0	0.30	ug/L			07/17/14 18:07	2
Tetrachloroethene	6.6		2.0	0.30	ug/L			07/17/14 18:07	2
Toluene	2.0	U	2.0	0.30	ug/L			07/17/14 18:07	2
Trichloroethene	46		2.0	0.29	ug/L			07/17/14 18:07	2
1,2-Dichlorobenzene	2.0	U	2.0	0.30	ug/L			07/17/14 18:07	2
cis-1,2-Dichloroethene	25		2.0	0.47	ug/L			07/17/14 18:07	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		58 - 135					07/17/14 18:07	2
4-Bromofluorobenzene (Surr)	84		62 - 123					07/17/14 18:07	2
Toluene-d8 (Surr)	98		71 - 118					07/17/14 18:07	2
Dibromofluoromethane (Surr)	106		64 - 128					07/17/14 18:07	2

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		07/17/14 07:58	07/18/14 19:29	1
Chromium	6.0		5.0	0.77	ug/L		07/17/14 07:58	07/18/14 19:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	310		2.0	2.0	mg/L			07/16/14 19:53	1
pH	9.14	HF	0.100	0.100	SU			07/15/14 11:02	1

Client Sample ID: WS-18036-071114-006

Lab Sample ID: 180-34799-6

Date Collected: 07/11/14 14:45

Matrix: Water

Date Received: 07/12/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.48	J B	1.0	0.15	ug/L			07/17/14 18:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			07/17/14 18:31	1
Toluene	1.0	U	1.0	0.15	ug/L			07/17/14 18:31	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			07/17/14 18:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			07/17/14 18:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/17/14 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		58 - 135					07/17/14 18:31	1
4-Bromofluorobenzene (Surr)	81		62 - 123					07/17/14 18:31	1
Toluene-d8 (Surr)	95		71 - 118					07/17/14 18:31	1
Dibromofluoromethane (Surr)	102		64 - 128					07/17/14 18:31	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	0.13	ug/L		07/17/14 07:58	07/18/14 19:35	1
Chromium	3.1	J	5.0	0.77	ug/L		07/17/14 07:58	07/18/14 19:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	160		2.0	2.0	mg/L			07/16/14 19:53	1
pH	8.67	HF	0.100	0.100	SU			07/15/14 10:59	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

Client Sample ID: WS-18036-071114-007

Lab Sample ID: 180-34799-7

Date Collected: 07/11/14 15:15

Matrix: Water

Date Received: 07/12/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.48	J B	1.0	0.15	ug/L			07/17/14 18:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			07/17/14 18:55	1
Toluene	1.0	U	1.0	0.15	ug/L			07/17/14 18:55	1
Trichloroethene	0.95	J	1.0	0.14	ug/L			07/17/14 18:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			07/17/14 18:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/17/14 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		58 - 135		07/17/14 18:55	1
4-Bromofluorobenzene (Surr)	83		62 - 123		07/17/14 18:55	1
Toluene-d8 (Surr)	98		71 - 118		07/17/14 18:55	1
Dibromofluoromethane (Surr)	106		64 - 128		07/17/14 18:55	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	0.13	ug/L		07/17/14 07:58	07/18/14 19:40	1
Chromium	1.4	J	5.0	0.77	ug/L		07/17/14 07:58	07/18/14 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	13		2.0	2.0	mg/L			07/16/14 19:53	1
pH	8.88	HF	0.100	0.100	SU			07/15/14 10:53	1

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

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

Lab Sample ID: MB 180-111739/5

Matrix: Water

Analysis Batch: 111739

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.202	J	1.0	0.15	ug/L			07/17/14 11:22	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			07/17/14 11:22	1
Toluene	1.0	U	1.0	0.15	ug/L			07/17/14 11:22	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			07/17/14 11:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			07/17/14 11:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/17/14 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		58 - 135		07/17/14 11:22	1
4-Bromofluorobenzene (Surr)	106		62 - 123		07/17/14 11:22	1
Toluene-d8 (Surr)	116		71 - 118		07/17/14 11:22	1
Dibromofluoromethane (Surr)	111		64 - 128		07/17/14 11:22	1

Lab Sample ID: LCS 180-111739/1002

Matrix: Water

Analysis Batch: 111739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	20.0	16.8		ug/L		84	60 - 140
Tetrachloroethene	20.0	17.9		ug/L		89	73 - 127
Toluene	20.0	20.0		ug/L		100	74 - 126
Trichloroethene	20.0	17.7		ug/L		88	73 - 125
1,2-Dichlorobenzene	20.0	19.3		ug/L		97	68 - 127
cis-1,2-Dichloroethene	20.0	17.8		ug/L		89	69 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 135
4-Bromofluorobenzene (Surr)	105		62 - 123
Toluene-d8 (Surr)	107		71 - 118
Dibromofluoromethane (Surr)	90		64 - 128

Lab Sample ID: 180-34873-B-2 MS

Matrix: Water

Analysis Batch: 111739

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
Methylene Chloride	0.55	J B	20.0	15.6		ug/L		75	60 - 140
Tetrachloroethene	1.0	U	20.0	15.6		ug/L		78	73 - 127
Toluene	1.0	U	20.0	19.7		ug/L		98	74 - 126
Trichloroethene	1.0	U	20.0	15.6		ug/L		78	73 - 125
1,2-Dichlorobenzene	1.0	U	20.0	16.7		ug/L		84	68 - 127
cis-1,2-Dichloroethene	1.0	U	20.0	17.0		ug/L		85	69 - 127

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		58 - 135
4-Bromofluorobenzene (Surr)	95		62 - 123
Toluene-d8 (Surr)	94		71 - 118

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

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

Lab Sample ID: 180-34873-B-2 MS

Matrix: Water

Analysis Batch: 111739

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	84		64 - 128

Lab Sample ID: 180-34873-C-2 MSD

Matrix: Water

Analysis Batch: 111739

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Methylene Chloride	0.55	J B	20.0	16.0		ug/L		77	60 - 140	2	25
Tetrachloroethene	1.0	U	20.0	15.3		ug/L		76	73 - 127	2	25
Toluene	1.0	U	20.0	19.6		ug/L		98	74 - 126	1	25
Trichloroethene	1.0	U	20.0	15.9		ug/L		79	73 - 125	2	25
1,2-Dichlorobenzene	1.0	U	20.0	17.8		ug/L		89	68 - 127	6	35
cis-1,2-Dichloroethene	1.0	U	20.0	17.8		ug/L		89	69 - 127	5	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		58 - 135
4-Bromofluorobenzene (Surr)	98		62 - 123
Toluene-d8 (Surr)	97		71 - 118
Dibromofluoromethane (Surr)	88		64 - 128

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-111733/1-A

Matrix: Water

Analysis Batch: 111977

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 111733

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	5.0	U	5.0	0.13	ug/L		07/17/14 07:58	07/18/14 17:01	1
Chromium	5.0	U	5.0	0.77	ug/L		07/17/14 07:58	07/18/14 17:01	1

Lab Sample ID: LCS 180-111733/2-A

Matrix: Water

Analysis Batch: 111977

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 111733

Analyte	Spike	LCS LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Cadmium	50.0	50.4		ug/L		101	85 - 115
Chromium	200	202		ug/L		101	85 - 115

Lab Sample ID: 180-34799-1 MS

Matrix: Water

Analysis Batch: 111977

Client Sample ID: WS-18036-071114-001

Prep Type: Total Recoverable

Prep Batch: 111733

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Cadmium	5.0	U	50.0	52.8		ug/L		106	70 - 130
Chromium	5.7		200	208		ug/L		101	70 - 130

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

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

Lab Sample ID: 180-34799-1 MSD
Matrix: Water
Analysis Batch: 111977

Client Sample ID: WS-18036-071114-001
Prep Type: Total Recoverable
Prep Batch: 111733

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	51.7		ug/L		103	70 - 130	2	20
Chromium	5.7		200	200		ug/L		97	70 - 130	4	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-111680/2
Matrix: Water
Analysis Batch: 111680

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.0	U	2.0	2.0	mg/L			07/16/14 19:53	1

Lab Sample ID: LCS 180-111680/1
Matrix: Water
Analysis Batch: 111680

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	53.6	52.0		mg/L		97	80 - 120

Lab Sample ID: 180-34703-A-1 DU
Matrix: Water
Analysis Batch: 111680

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	2.0	U	2.0	U	mg/L		NC	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 180-111493/1
Matrix: Water
Analysis Batch: 111493

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.030		SU		100	99 - 101

Lab Sample ID: 180-34799-7 DU
Matrix: Water
Analysis Batch: 111493

Client Sample ID: WS-18036-071114-007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.88	HF	8.910		SU		0.3	2

TestAmerica Pittsburgh

QC Association Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

GC/MS VOA

Analysis Batch: 111739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34799-1	WS-18036-071114-001	Total/NA	Water	624	
180-34799-2	WS-18036-071114-002	Total/NA	Water	624	
180-34799-3	WS-18036-071114-003	Total/NA	Water	624	
180-34799-4	WS-18036-071114-004	Total/NA	Water	624	
180-34799-5	WS-18036-071114-005	Total/NA	Water	624	
180-34799-6	WS-18036-071114-006	Total/NA	Water	624	
180-34799-7	WS-18036-071114-007	Total/NA	Water	624	
180-34873-B-2 MS	Matrix Spike	Total/NA	Water	624	
180-34873-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	624	
LCS 180-111739/1002	Lab Control Sample	Total/NA	Water	624	
MB 180-111739/5	Method Blank	Total/NA	Water	624	

Metals

Prep Batch: 111733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34799-1	WS-18036-071114-001	Total Recoverable	Water	200.7	
180-34799-1 MS	WS-18036-071114-001	Total Recoverable	Water	200.7	
180-34799-1 MSD	WS-18036-071114-001	Total Recoverable	Water	200.7	
180-34799-2	WS-18036-071114-002	Total Recoverable	Water	200.7	
180-34799-3	WS-18036-071114-003	Total Recoverable	Water	200.7	
180-34799-4	WS-18036-071114-004	Total Recoverable	Water	200.7	
180-34799-5	WS-18036-071114-005	Total Recoverable	Water	200.7	
180-34799-6	WS-18036-071114-006	Total Recoverable	Water	200.7	
180-34799-7	WS-18036-071114-007	Total Recoverable	Water	200.7	
LCS 180-111733/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
MB 180-111733/1-A	Method Blank	Total Recoverable	Water	200.7	

Analysis Batch: 111977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34799-1	WS-18036-071114-001	Total Recoverable	Water	200.7 Rev 4.4	111733
180-34799-1 MS	WS-18036-071114-001	Total Recoverable	Water	200.7 Rev 4.4	111733
180-34799-1 MSD	WS-18036-071114-001	Total Recoverable	Water	200.7 Rev 4.4	111733
180-34799-2	WS-18036-071114-002	Total Recoverable	Water	200.7 Rev 4.4	111733
180-34799-3	WS-18036-071114-003	Total Recoverable	Water	200.7 Rev 4.4	111733
180-34799-4	WS-18036-071114-004	Total Recoverable	Water	200.7 Rev 4.4	111733
180-34799-5	WS-18036-071114-005	Total Recoverable	Water	200.7 Rev 4.4	111733
180-34799-6	WS-18036-071114-006	Total Recoverable	Water	200.7 Rev 4.4	111733
180-34799-7	WS-18036-071114-007	Total Recoverable	Water	200.7 Rev 4.4	111733
LCS 180-111733/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	111733
MB 180-111733/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	111733

General Chemistry

Analysis Batch: 111493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34799-1	WS-18036-071114-001	Total/NA	Water	SM 4500 H+ B	
180-34799-2	WS-18036-071114-002	Total/NA	Water	SM 4500 H+ B	
180-34799-3	WS-18036-071114-003	Total/NA	Water	SM 4500 H+ B	
180-34799-4	WS-18036-071114-004	Total/NA	Water	SM 4500 H+ B	

TestAmerica Pittsburgh

QC Association Summary

Client: Leo Brausch Consulting
 Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34799-1

General Chemistry (Continued)

Analysis Batch: 111493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34799-5	WS-18036-071114-005	Total/NA	Water	SM 4500 H+ B	
180-34799-6	WS-18036-071114-006	Total/NA	Water	SM 4500 H+ B	
180-34799-7	WS-18036-071114-007	Total/NA	Water	SM 4500 H+ B	
180-34799-7 DU	WS-18036-071114-007	Total/NA	Water	SM 4500 H+ B	
LCS 180-111493/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 111680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34703-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	
180-34799-1	WS-18036-071114-001	Total/NA	Water	SM 2540D	
180-34799-2	WS-18036-071114-002	Total/NA	Water	SM 2540D	
180-34799-3	WS-18036-071114-003	Total/NA	Water	SM 2540D	
180-34799-4	WS-18036-071114-004	Total/NA	Water	SM 2540D	
180-34799-5	WS-18036-071114-005	Total/NA	Water	SM 2540D	
180-34799-6	WS-18036-071114-006	Total/NA	Water	SM 2540D	
180-34799-7	WS-18036-071114-007	Total/NA	Water	SM 2540D	
LCS 180-111680/1	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 180-111680/2	Method Blank	Total/NA	Water	SM 2540D	



CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

Address: NE/NY

Phone: 716-297-6150 Fax: 716-297-2265

COC NO.: 40785

PAGE 1 OF 1

(See Reverse Side for Instructions)

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

Project Name: BUFFALO AIRPORT SURFACE WATER

Project Location: CHEEK TOWN, NY

Chemistry Contact: JIM COUSSY

Sampler(s): BO OSCAR / K. LYBCKA

Laboratory Name: TEST AMERICA

Lab Contact: JIM COUSSY

Container Quantity & Preservation

Analysis Requested

Carrier: FEDEX

Date Shipped: 7/11/14

Comments/Special Instructions:

MS/MSD Request

Matrix Code

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: ICE

Total Containers/Sample

VOCs w/ HCl

Metals w/ HCl

TSS

pH

180-34799 Chain of Custody

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	ANALYSIS REQUESTED (See Back of COC for Definitions)	MS/MSD Request	Carrier: Airbill No:	COOLERS/INSULATED CONTAINERS: Cooler No.:	SSOW ID:
1	WS-18036-071114-001	7/11/14	1300	MSG	2	3	1						ICE	6	VOCs w/ HCl METALS w/ HCl TSS PH		FEDEX		
2	"	"	1330											6					
3	"	"	1400											6					
4	"	"	1415											6					
5	"	"	1430											6					
6	"	"	1445											6					
7	"	"	1515											6					
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

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

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

FINISHED BY

COMPANY

DATE

TIME

RECEIVED BY

COMPANY

DATE

TIME

Total Number of Containers:

All Samples in Cooler must be on COC

Notes/Special Requirements:



180-34799 Chain of Custody

Distribution:

WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-105 (20110804)

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

Login Sample Receipt Checklist

Client: Leo Brausch Consulting

Job Number: 180-34799-1

Login Number: 34799

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Lonzo, Michael A

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 $<6\text{mm}$ (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: 180-34840-1

Client Project/Site: Buffalo Airport

For:

Leo Brausch Consulting

131 Wedgewood Drive

Gibsonia, Pennsylvania 15044

Attn: Mr. Leo Brausch



Authorized for release by:

7/25/2014 11:16:12 AM

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

LINKS

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results through

TotalAccess

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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: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

Job ID: 180-34840-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-34840-1

Receipt

The samples were received on 7/15/2014 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

The metals bottle for sample WS-18036-071414-01 was received un-preserved. This sample was preserved upon receipt.

GC/MS VOA

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

Metals

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

General Chemistry

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: 180-34840-1

Qualifiers

GC/MS VOA

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

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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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: 180-34840-1

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	06-27-15
California	NELAP	9	4224CA	03-31-14 *
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15
Kansas	NELAP	7	E-10350	01-31-15
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-15
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-15
North Carolina (WW/SW)	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-15
South Carolina	State Program	4	89014	04-30-14 *
Texas	NELAP	6	T104704528	03-31-15
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-14
West Virginia DEP	State Program	3	142	01-31-15
Wisconsin	State Program	5	998027800	08-31-14

* Certification renewal pending - certification considered valid.



Sample Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-34840-1	WS-18036-071414-008	Water	07/14/14 07:35	07/15/14 09:05
180-34840-2	WS-18036-071414-009	Water	07/14/14 07:55	07/15/14 09:05
180-34840-3	WS-18036-071414-010	Water	07/14/14 08:35	07/15/14 09:05

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Method Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL PIT
200.7 Rev 4.4	Metals (ICP)	EPA	TAL PIT
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 H+ B	pH	SM	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

SM = "Standard Methods For The Examination Of Water And Wastewater",

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: 180-34840-1

Client Sample ID: WS-18036-071414-008

Lab Sample ID: 180-34840-1

Date Collected: 07/14/14 07:35

Matrix: Water

Date Received: 07/15/14 09:05

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	112460	07/24/14 15:28	DLF	TAL PIT
		Instrument ID: CHHP5								
Total Recoverable	Prep	200.7			50 mL	50 mL	111863	07/18/14 08:54	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	112216	07/22/14 11:04	RJG	TAL PIT
		Instrument ID: C								
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	112127	07/21/14 18:54	ALF	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111664	07/16/14 11:32	AJB	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WS-18036-071414-009

Lab Sample ID: 180-34840-2

Date Collected: 07/14/14 07:55

Matrix: Water

Date Received: 07/15/14 09:05

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	112460	07/24/14 15:52	DLF	TAL PIT
		Instrument ID: CHHP5								
Total Recoverable	Prep	200.7			50 mL	50 mL	111863	07/18/14 08:54	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	112216	07/22/14 11:09	RJG	TAL PIT
		Instrument ID: C								
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	112127	07/21/14 18:54	ALF	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111664	07/16/14 11:35	AJB	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WS-18036-071414-010

Lab Sample ID: 180-34840-3

Date Collected: 07/14/14 08:35

Matrix: Water

Date Received: 07/15/14 09:05

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	112460	07/24/14 16:16	DLF	TAL PIT
		Instrument ID: CHHP5								
Total Recoverable	Prep	200.7			50 mL	50 mL	111863	07/18/14 08:54	SLB	TAL PIT
Total Recoverable	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	112216	07/22/14 11:15	RJG	TAL PIT
		Instrument ID: C								
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	112127	07/21/14 18:54	ALF	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	111664	07/16/14 11:38	AJB	TAL PIT
		Instrument ID: NOEQUIP								

Laboratory References:

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

TestAmerica Pittsburgh

Lab Chronicle

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

SLB = Sandy Becker

Batch Type: Analysis

AJB = Amanda Brunick

ALF = Ato Foulland

DLF = Donald Ferguson

RJG = Rob Good

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Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

Client Sample ID: WS-18036-071414-008

Lab Sample ID: 180-34840-1

Date Collected: 07/14/14 07:35

Matrix: Water

Date Received: 07/15/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			07/24/14 15:28	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			07/24/14 15:28	1
Toluene	1.0	U	1.0	0.15	ug/L			07/24/14 15:28	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			07/24/14 15:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			07/24/14 15:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/24/14 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		58 - 135		07/24/14 15:28	1
4-Bromofluorobenzene (Surr)	90		62 - 123		07/24/14 15:28	1
Toluene-d8 (Surr)	101		71 - 118		07/24/14 15:28	1
Dibromofluoromethane (Surr)	113		64 - 128		07/24/14 15:28	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	0.13	ug/L		07/18/14 08:54	07/22/14 11:04	1
Chromium	5.0	U	5.0	0.77	ug/L		07/18/14 08:54	07/22/14 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	7.6		2.0	2.0	mg/L			07/21/14 18:54	1
pH	8.06	HF	0.100	0.100	SU			07/16/14 11:32	1

Client Sample ID: WS-18036-071414-009

Lab Sample ID: 180-34840-2

Date Collected: 07/14/14 07:55

Matrix: Water

Date Received: 07/15/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			07/24/14 15:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			07/24/14 15:52	1
Toluene	1.0	U	1.0	0.15	ug/L			07/24/14 15:52	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			07/24/14 15:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			07/24/14 15:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/24/14 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		58 - 135		07/24/14 15:52	1
4-Bromofluorobenzene (Surr)	93		62 - 123		07/24/14 15:52	1
Toluene-d8 (Surr)	103		71 - 118		07/24/14 15:52	1
Dibromofluoromethane (Surr)	118		64 - 128		07/24/14 15:52	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		07/18/14 08:54	07/22/14 11:09	1
Chromium	5.0	U	5.0	0.77	ug/L		07/18/14 08:54	07/22/14 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	8.0		2.0	2.0	mg/L			07/21/14 18:54	1
pH	8.18	HF	0.100	0.100	SU			07/16/14 11:35	1

TestAmerica Pittsburgh

Client Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

Client Sample ID: WS-18036-071414-010

Lab Sample ID: 180-34840-3

Date Collected: 07/14/14 08:35

Matrix: Water

Date Received: 07/15/14 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			07/24/14 16:16	1
Tetrachloroethene	1.9		1.0	0.15	ug/L			07/24/14 16:16	1
Toluene	1.0	U	1.0	0.15	ug/L			07/24/14 16:16	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			07/24/14 16:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			07/24/14 16:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/24/14 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		58 - 135		07/24/14 16:16	1
4-Bromofluorobenzene (Surr)	91		62 - 123		07/24/14 16:16	1
Toluene-d8 (Surr)	100		71 - 118		07/24/14 16:16	1
Dibromofluoromethane (Surr)	119		64 - 128		07/24/14 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	0.61	J	5.0	0.13	ug/L		07/18/14 08:54	07/22/14 11:15	1
Chromium	1.4	J	5.0	0.77	ug/L		07/18/14 08:54	07/22/14 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.4		2.0	2.0	mg/L			07/21/14 18:54	1
pH	7.90	HF	0.100	0.100	SU			07/16/14 11:38	1

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

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

Lab Sample ID: MB 180-112460/7

Matrix: Water

Analysis Batch: 112460

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.15	ug/L			07/24/14 12:17	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			07/24/14 12:17	1
Toluene	1.0	U	1.0	0.15	ug/L			07/24/14 12:17	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			07/24/14 12:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			07/24/14 12:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/24/14 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		58 - 135		07/24/14 12:17	1
4-Bromofluorobenzene (Surr)	92		62 - 123		07/24/14 12:17	1
Toluene-d8 (Surr)	101		71 - 118		07/24/14 12:17	1
Dibromofluoromethane (Surr)	119		64 - 128		07/24/14 12:17	1

Lab Sample ID: LCS 180-112460/1004

Matrix: Water

Analysis Batch: 112460

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	10.0	10.7		ug/L		107	60 - 140
Tetrachloroethene	10.0	11.1		ug/L		111	73 - 127
Toluene	10.0	11.3		ug/L		113	74 - 126
Trichloroethene	10.0	10.3		ug/L		103	73 - 125
1,2-Dichlorobenzene	10.0	9.95		ug/L		100	68 - 127
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	69 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		58 - 135
4-Bromofluorobenzene (Surr)	95		62 - 123
Toluene-d8 (Surr)	100		71 - 118
Dibromofluoromethane (Surr)	93		64 - 128

Lab Sample ID: LCSD 180-112460/10

Matrix: Water

Analysis Batch: 112460

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
Methylene Chloride	10.0	10.7		ug/L		107	60 - 140	1	25
Tetrachloroethene	10.0	11.0		ug/L		110	73 - 127	1	25
Toluene	10.0	11.1		ug/L		111	74 - 126	1	25
Trichloroethene	10.0	10.3		ug/L		103	73 - 125	0	25
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	68 - 127	4	35
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	69 - 127	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 135
4-Bromofluorobenzene (Surr)	89		62 - 123
Toluene-d8 (Surr)	92		71 - 118

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

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

Lab Sample ID: LCSD 180-112460/10
Matrix: Water
Analysis Batch: 112460

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	92		64 - 128

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 180-111863/1-A
Matrix: Water
Analysis Batch: 112216

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 111863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	U	5.0	0.13	ug/L		07/18/14 08:54	07/22/14 09:53	1
Chromium	5.0	U	5.0	0.77	ug/L		07/18/14 08:54	07/22/14 09:53	1

Lab Sample ID: LCS 180-111863/2-A
Matrix: Water
Analysis Batch: 112216

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 111863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	50.6		ug/L		101	85 - 115
Chromium	200	200		ug/L		100	85 - 115

Lab Sample ID: 180-34905-B-7-B MS
Matrix: Water
Analysis Batch: 112216

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 111863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	5.0	U	50.0	50.3		ug/L		101	70 - 130
Chromium	5.0	U	200	199		ug/L		100	70 - 130

Lab Sample ID: 180-34905-B-7-C MSD
Matrix: Water
Analysis Batch: 112216

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 111863

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	51.0		ug/L		102	70 - 130	1	20
Chromium	5.0	U	200	201		ug/L		100	70 - 130	1	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-112127/2
Matrix: Water
Analysis Batch: 112127

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.0	U	2.0	2.0	mg/L			07/21/14 18:54	1

TestAmerica Pittsburgh

QC Sample Results

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 180-112127/1

Matrix: Water

Analysis Batch: 112127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	53.6	52.0		mg/L		97	80 - 120

Lab Sample ID: 180-34814-A-1 DU

Matrix: Water

Analysis Batch: 112127

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	4.4		5.20		mg/L		17	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 180-111664/1

Matrix: Water

Analysis Batch: 111664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.030		SU		100	99 - 101

Lab Sample ID: 180-34509-D-1 DU

Matrix: Water

Analysis Batch: 111664

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.60		8.590		SU		0.1	2

QC Association Summary

Client: Leo Brausch Consulting
Project/Site: Buffalo Airport

TestAmerica Job ID: 180-34840-1

GC/MS VOA

Analysis Batch: 112460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34840-1	WS-18036-071414-008	Total/NA	Water	624	
180-34840-2	WS-18036-071414-009	Total/NA	Water	624	
180-34840-3	WS-18036-071414-010	Total/NA	Water	624	
LCS 180-112460/1004	Lab Control Sample	Total/NA	Water	624	
LCS 180-112460/10	Lab Control Sample Dup	Total/NA	Water	624	
MB 180-112460/7	Method Blank	Total/NA	Water	624	

Metals

Prep Batch: 111863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34840-1	WS-18036-071414-008	Total Recoverable	Water	200.7	
180-34840-2	WS-18036-071414-009	Total Recoverable	Water	200.7	
180-34840-3	WS-18036-071414-010	Total Recoverable	Water	200.7	
180-34905-B-7-B MS	Matrix Spike	Total Recoverable	Water	200.7	
180-34905-B-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7	
LCS 180-111863/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
MB 180-111863/1-A	Method Blank	Total Recoverable	Water	200.7	

Analysis Batch: 112216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34840-1	WS-18036-071414-008	Total Recoverable	Water	200.7 Rev 4.4	111863
180-34840-2	WS-18036-071414-009	Total Recoverable	Water	200.7 Rev 4.4	111863
180-34840-3	WS-18036-071414-010	Total Recoverable	Water	200.7 Rev 4.4	111863
180-34905-B-7-B MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	111863
180-34905-B-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	111863
LCS 180-111863/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	111863
MB 180-111863/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	111863

General Chemistry

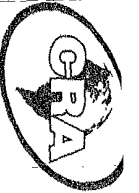
Analysis Batch: 111664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34509-D-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
180-34840-1	WS-18036-071414-008	Total/NA	Water	SM 4500 H+ B	
180-34840-2	WS-18036-071414-009	Total/NA	Water	SM 4500 H+ B	
180-34840-3	WS-18036-071414-010	Total/NA	Water	SM 4500 H+ B	
LCS 180-111664/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 112127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-34814-A-1 DU	Duplicate	Total/NA	Water	SM 2540D	
180-34840-1	WS-18036-071414-008	Total/NA	Water	SM 2540D	
180-34840-2	WS-18036-071414-009	Total/NA	Water	SM 2540D	
180-34840-3	WS-18036-071414-010	Total/NA	Water	SM 2540D	
LCS 180-112127/1	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 180-112127/2	Method Blank	Total/NA	Water	SM 2540D	

TestAmerica Pittsburgh



CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

Address:

NE/NY

Phone: 716-297-6150 Fax: 716-297-2265

COC NO: 31019

PAGE 1 OF 1

(See Reverse Side for Instructions)

7/25/2014

Project No./Phase/Task Code 18036-2014		Laboratory Name: TEST AMERICA		Lab Location: PITTSBURGH, PA		SSOW ID:	
Project Name: AIRPORT STORM WATER		Lab Contact: JULIE CAUSSY		Lab Quote No:		Cooler No:	
Project Location: CHECK TOWNAGA, NY		SAMPLE TYPE CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: FED EX	
Chemistry Contact: LEO BRAUSCH		DATE (m/d/yyyy)		TIME (h:mm)		Airbill No:	
Sampler(s): KENNEDY BROOK, DEWES OSCAR		Matrix Code (see back of COC)		Grab-(G)-or-Comp-(C)		Date Shipped: 7/14/14	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		Unpreserved		Hydrochloric Acid (HCl)		MS/MSD Request	
1 WS-18036-071414-008		2 3 1		Nitric Acid (HNO ₃)		COMMENTS/ SPECIAL INSTRUCTIONS:	
2 WS-18036-071414-009		2 3 1		Sulfuric Acid (H ₂ SO ₄)		NOTE: DOB THE METALS METALS BOTTLE FOR DOB WS 18036-071414-009 SAMPLE DID WAS NOT PRESERVED.	
3 WS-18036-071414-DID		2 3 1		Sodium Hydroxide (NaOH)			
				Methanol/Water (Soil VOC)			
				EnCores 3x6-g, 1x25-g			
				Other: ICE			
				Total Containers/Sample			
				VOCs/w/HCl METALS w/HNO ₃ PH TSS			
				180-34840 Chain of Custody			
				Total Number of Containers:		Notes/Special Requirements:	
				All Samples in Cooler must be on COC			
TAT Required in business days (use separate COCs for different TATs):		RECEIVED BY		COMPANY		DATE/TIME	
<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:		1615		CRA		7-15-14 9:05	
RELINQUISHED BY		DATE		TIME		DATE/TIME	
1		7/14/14		1615		7-15-14 9:05	
2							
3							

Distribution:

WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

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

CRA Form, COC-108 (2011/08/04)



APPROVERS
153001111501

ORIGIN ID:BUFA (716) 609-0384
CRA INC
2055 NIAGARA FALLS BLVD-STE 3,
NIAGARA FALLS, NY 143045702
UNITED STATES US

SHIP DATE: 14JUL14
ACTWGT: 30.4 LB
CAD: 7POS1501
DIMS: 19x13x10 IN
BILL SENDER

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

PITTSBURGH PA 15238

(412) 963-7068
INU:
PO:

REF:

DEPT:



TUE - 15 JUL 10:30A
PRIORITY OVERNIGHT

TRK# 8059 4022 4233
0200

XH AGCA

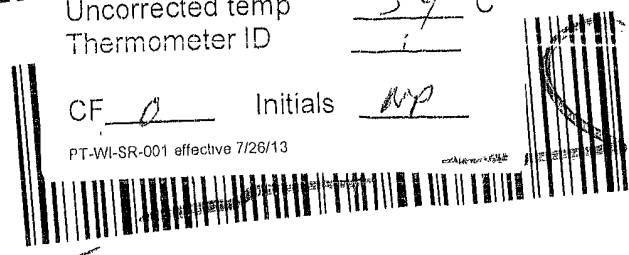
15238
PA-US PIT

Uncorrected temp
Thermometer ID

34 °C
i

CF o Initials wp

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



- 1
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- 11
- 12
- 13

Login Sample Receipt Checklist

Client: Leo Brausch Consulting

Job Number: 180-34840-1

Login Number: 34840

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.	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

