WATER SUPPLY MONITORING REPORT: FIRST QUARTER 2013

CTS OF ASHEVILLE, INC. SUPERFUND SITE

235 Mills Gap Road
Asheville, Buncombe County, North Carolina
EPA ID: NCD003149556
CERCLA Docket No. CERCLA-04-2012-3762

Prepared for:

CTS Corporation
905 West Boulevard North
Elkhart, Indiana 46514

Prepared by:

AMEC Environment & Infrastructure, Inc.
1308 Patton Avenue
Asheville, North Carolina 28806

AMEC Project 6252-12-0006

March 6, 2013

amec

March 6, 2013

Ms. Samantha Urquhart-Foster
Superfund Remedial and Site Evaluation Branch
U.S. Environmental Protection Agency
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-8960
Urquhart-Foster.Samantha@epa.gov

Subject: **Water Supply Monitoring Report: First Quarter 2013**
CTS of Asheville, Inc. Superfund Site
235 Mills Gap Road, Asheville, Buncombe County, North Carolina
EPA ID: NCD003149556
CERCLA Docket No. CERCLA-04-2012-3762
AMEC Project 6252-12-0006

Dear Ms. Urquhart-Foster:

Please find attached the Water Supply Monitoring Report: First Quarter 2013 for the above-referenced Site. AMEC Environment & Infrastructure, Inc. prepared this Report on behalf of CTS Corporation pursuant to the requirement set forth in Section 3.1.6 of the Scope of Work contained in Appendix A of the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study between the United States Environmental Protection Agency Region 4 and CTS Corporation (effective date of January 26, 2012).

If you have questions regarding this Water Supply Monitoring Report, please contact us at (828) 252-8130.

Sincerely,

AMEC Environment & Infrastructure, Inc.

Susan E. Kelly, P.E., L.G.
Senior Engineer

Matthew E. Wallace, P.E.
Principal Engineer

NORTH CAROLINA PROFESSIONAL SEAL 24933 3/6/13 ENGINEER MATTHEW E. WALLACE

SEK/MEW:sek

cc: Elizabeth Ahlemann, CTS Corporation
Michael Dolan, Jones Day
Nile Testerman, NCDENR

Correspondence:
AMEC
1308 Patton Avenue
Asheville, North Carolina 28806
Tel 828.252.8130
Fax 828.251.9690
License Number: NC Corporate Engineering F-1253

TABLE OF CONTENTS

List of Tables i
List of Figures i
List of Appendices i
List of Acronyms ii

EXECUTIVE SUMMARY I

1.0 INTRODUCTION 1
1.1 Site Description 1
1.2 Previous Environmental Investigations 1
1.3 Objective of Water Supply Monitoring 2

2.0 WATER SUPPLY MONITORING ACTIVITIES 3
2.1 Assignment of Sampling Locations 3
2.2 Sampling Activities 3
2.3 Analysis of Water Samples 4

3.0 ANALYTICAL RESULTS AND DATA USABILITY 6
3.1 Data Validation 6
3.2 Data Usability Summary 6

4.0 DISCUSSION AND CONCLUSIONS 8

TABLE

1 Water Supply Sample Summary

LIST OF FIGURES

1 Quarterly Drinking Water Well Location Map
2 Drinking Water Wells Sampled in January 2013

LIST OF APPENDICES

A Logbook and Field Data Records
B Photographs of Sampling Activities
C Laboratory Analytical Reports
D Data Validation Report

LIST OF ACRONYMS

AMEC	AMEC Environment & Infrastructure, Inc.
FDR	field data record
IRM	Interim Response Measure
MGRA	Mills Gap Road Associates
TCE	trichloroethene (also, trichloroethylene)
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

EXECUTIVE SUMMARY

AMEC Environment & Infrastructure, Inc., on behalf of CTS Corporation, conducted this first quarter 2013 water supply monitoring event for the CTS of Asheville, Inc. Superfund Site (Site). The monitoring activities were conducted pursuant to Section 3.1.6 of the Scope of Work contained in Appendix A of the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study between the United States Environmental Protection Agency (USEPA) and CTS Corporation.

The USEPA has been collecting/analyzing water supply samples from identified wells/springs within an approximate one-mile radius of the Site on a quarterly basis since 2007. As of March 2012, the USEPA had conducted 13 sampling events. Trichloroethene and associated daughter products were identified in several of the sampled water supply wells and those homes have been connected to the municipal water supply. The objective of the water supply monitoring activities is to collect water supply samples to monitor potential target VOC contamination impacting the residential water supply sources within an approximate one-mile radius of the former plant at the Site. This Water Supply Monitoring Report describes the activities that were undertaken to monitor drinking water quality from water supply wells and springs located within a one-mile radius of the former plant at the Site.

The monitoring activities were conducted in accordance with the USEPA-approved Work Plan for Monitoring of Drinking Water Wells, Revision 1 (Work Plan) dated August 30, 2012. Water supply samples were collected from 21 locations during this quarterly sampling event. The laboratory analytical results of the submitted water samples indicate that the analyzed constituents were not detected above the associated method detection limits. Not considering the data gap related to a water sample not being collected at a well location where a sampling location (i.e., spigot, faucet, etc.) was unavailable at the time of sampling, the data collected for water supply monitoring is considered 100 percent complete and usable for meeting the objectives presented in the Work Plan.

1.0 INTRODUCTION

AMEC Environment & Infrastructure, Inc. (AMEC), on behalf of CTS Corporation, has prepared this Water Supply Monitoring Report: First Quarter 2013 (Report) for the CTS of Asheville, Inc. Superfund Site (Site). This Report describes work conducted in accordance with the Work Plan for Monitoring of Drinking Water Wells, Revision 1 (Work Plan), dated August 30, 2012, which was approved by the United States Environmental Protection Agency (USEPA) in a letter dated October 26, 2012. The water supply monitoring activities were conducted pursuant to Section 3.1.6 of the Scope of Work contained in Appendix A of the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study (RI/FS) between the USEPA and CTS Corporation (effective date January 26, 2012). This Report describes the activities that were undertaken to monitor drinking water quality from water supply wells and springs located within a one-mile radius of the former plant at the Site.

1.1 SITE DESCRIPTION

The Site is approximately nine acres on Mills Gap Road in Asheville, Buncombe County, North Carolina, and the areal extent of the contamination. The approximate center of the Site is located at north latitude 35°29'36" and west longitude 82°30'25". The Site formerly contained an approximate 95,000-square foot, single-story brick and metal structure in the southern portion of the Site. The building was demolished in December 2011 and the concrete building pad remains intact. The Site is unoccupied.

1.2 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Environmental investigations have been conducted at the Site by several entities since 1987. The results of previous investigations have been described in other Site documents, and will be presented in the RI/FS Work Plan to be prepared for the Site. The results of previous investigations have identified volatile organic compounds (VOCs), primarily TCE, at the Site.

The USEPA has been collecting/analyzing water supply samples from identified wells/springs within an approximate one-mile radius of the Site on a quarterly basis since 2007. As of March 2012, the USEPA had conducted 13 water supply sampling events.

1.3 OBJECTIVE OF WATER SUPPLY MONITORING

The objective of the water supply monitoring activities is to collect water supply samples to monitor potential target VOC concentrations in residential water supply sources within an approximate one-mile radius of the former plant at the Site. Water supply samples will be collected on a quarterly basis from approximately one-quarter of the water supply sources; therefore, each water supply source will be sampled annually.

2.0 WATER SUPPLY MONITORING ACTIVITIES

The water supply monitoring activities were conducted in accordance with the USEPA-approved Work Plan. The Work Plan was developed to monitor potential target VOC concentrations in residential water supply sources within an approximate one-mile radius of the former plant at the Site. The collected water samples were analyzed for the target VOCs associated with the Site, and, as requested by the USEPA, the samples were also analyzed for toluene.

2.1 ASSIGNMENT OF SAMPLING LOCATIONS

Access agreements were sent by the USEPA to homes within a one-mile radius of the Site requesting access for AMEC and USEPA personnel to enter an owner's property for collection of water supply samples and/or to service a Respondent-installed Interim Response Measure (IRM) water filtration system. As of December 22, 2012, 97 completed/accepted access agreements had been received by USEPA. Nine of the locations contain an IRM filtration system where water is supplied by a shared well that is located on another property. In such instances, water supply samples (pre- and post-filtration system) will be collected from the "source" well property. At one location, the source well is located on a property that is currently vacant, and the adjacent property, which has an IRM filtration system installed in the residence, obtains water from the source well on the vacant property; in this instance, pre- and post-filtration system samples will be collected at the occupied residence with the IRM filtration system.

The remaining 87 locations were assigned to a quarterly sampling event (January, April, July, or October) using a random number generator procedure. The resulting sample assignment included 22 sampling locations for the first three quarters and 21 sampling locations for the fourth quarter. As additional access agreements are obtained, the water supply sample locations will be assigned sequentially to the next quarter, beginning with the fourth quarter.

2.2 SAMPLING ACTIVITIES

Sampling activities were conducted from January 14 through 18, 2013. A USEPA contractor representative accompanied AMEC during the sampling activities conducted on

January 14 through 17, 2013. There were 22 locations planned for the sampling event; however, a sample could not be obtained from one location (35 Chapel Hill Church Road) due to recent plumbing modifications at the wellhead, including removal of the wellhead spigot that was previously used by USEPA contractors for collection of water supply samples. This location will be sampled during the next quarterly sampling event, but will remain in the first quarter sampling group for subsequent years.

Where a water supply system has a Respondent-installed IRM filtration system, a water sample was collected pre-filter (at the wellhead or at a sample port 'upstream' of the filtration system) and post-filter (at an interior faucet, exterior spigot, or at a sample port 'downstream' of the filtration system). The well systems were purged for at least 15 minutes prior to sample collection. At residences with an IRM filtration system, the system was purged from a location downstream of the filtration system. At residences without an IRM filtration system, the water system was purged from a spigot on the wellhead. At approximate five-minute intervals during purging, water quality parameters (pH, temperature, conductivity, and turbidity) were measured and recorded on the Water Supply Well Sampling Record Field Data Record (FDR). Copies of the equipment calibration FDRs, sampling FDRs, and the logbook for the sampling activities are included in Appendix A. Photographs of the sampling activities are included in Appendix B. Table 1 contains a summary of the water supply samples collected and associated quality assurance/quality control samples submitted to the laboratory.

The water samples were packed in ice-chilled coolers and delivered under chain-of-custody protocol to the laboratory by AMEC personnel. The samples were delivered to Pace Analytical Services (Pace) in Asheville, North Carolina and couriered by laboratory personnel to Pace's laboratory in Huntersville, North Carolina for analysis.

2.3 ANALYSIS OF WATER SAMPLES

The water samples were submitted for analysis of the following target VOCs according to USEPA Method 8260:

- 1,1-dichloroethene
- cis-1,2-dichloroethene

- trans-1,2-dichloroethene
- tetrachloroethene
- 1,1,1-trichloroethane
- trichloroethene
- vinyl chloride
- toluene

3.0 ANALYTICAL RESULTS AND DATA USABILITY

The following sections describe the laboratory analytical results of the submitted water samples, as well as the results of data validation and data usability. The laboratory analytical reports are included as Appendix C.

The laboratory analytical results of the submitted water samples indicate that the analyzed constituents were not detected above the associated method detection limits.

3.1 DATA VALIDATION

Data validation was conducted based on procedures in the USEPA Region 4 Data Validation Standard Operating Procedures for Organic Analysis (USEPA, 2008). Full validation, including raw data verification and calculation checks, was completed on ten percent of the laboratory data.

The data validation report is included in Appendix D. The results of the data validation did not indicate the presence of quality control issues.

3.2 DATA USABILITY SUMMARY

The field investigation was conducted as proposed in the Work Plan, with the following discrepancies:

- Matrix spike and matrix spike duplicate samples (MS/MSD) were not identified on the chain-of-custody records; however, the laboratory used water samples that were included in the sample delivery group to conduct the MS/MSD evaluation.
- The turbidity calibration solutions received from the company supplying the rental equipment were expired; however, turbidity measurements were used to determine the adequacy of purging and do not affect the laboratory analytical results.

The field investigation was conducted as proposed in the Work Plan, with the following data gap:

- A water supply sample was not collected from the 35 Chapel Hill Church Road location.

Data quality issues were not identified during the data validation process. The identified data gap was out of the control of AMEC, the Respondent, or USEPA (i.e., the sampling location had been modified by the property owner, and the condition was unknown prior to sampling activities), and the data gap will be addressed during the next quarterly monitoring event. The data set is considered to be 100 percent complete with respect to the collected data. Therefore, the data is usable for completing the objectives set forth in the Work Plan.

4.0 DISCUSSION AND CONCLUSIONS

The water supply monitoring activities were conducted in accordance with the USEPA-approved Work Plan. Concentrations of analyzed constituents were not detected above the laboratory method detection limits.

The next monitoring event will be conducted in April 2013. A sample will be collected from the 35 Chapel Hill Church Road location, which was not accessible during this monitoring event.

TABLE

TABLE 1
Water Supply Sample Summary
CTS of Asheville, Inc. Superfund Site
Asheville, North Carolina
AMEC Project 6252-12-0006

Address	Station ID	Sample ID	Date	Sample Location	Associated QA/QC Samples
5 Forest Run Drive	MGPW091	PW-091A-01	1/14/2013	spigot on wellhead	TB-01-01
5 Forest Run Drive	MGPW091	PW-091B-01	1/14/2013	sample port on IRM system	TB-01-01
5 Helton Drive	MGPW151	PW-151A-01	1/14/2013	spigot on wellhead	TB-01-01 FD-01-01
5 Helton Drive	MGPW151	PW-151B-01	1/14/2013	sample port on IRM system	TB-01-01
11 Forest Run Drive	MGPW026	PW-026A-01	1/15/2013	sample port on IRM system	TB-01-01
11 Forest Run Drive	MGPW026	PW-026B-01	1/15/2013	spigot on house	TB-01-01
12 Bethel Drive	MGPW156	PW-156A-01	1/15/2013	spigot on wellhead	TB-01-01
12 Bethel Drive	MGPW156	PW-156B-01	1/15/2013	kitchen sink	TB-01-01
114 Russet Lane	MGPW014	PW-014A-01	1/15/2013	spigot on wellhead	TB-01-01
114 Russet Lane	MGPW014	PW-014B-01	1/15/2013	sample port on IRM system	TB-01-01
30 Moriah Lane	MGPW143	PW-143A-01	1/15/2013	spigot on wellhead	TB-01-01
30 Moriah Lane	MGPW143	PW-143B-01	1/15/2013	spigot on house	TB-01-01
28 Moriah Lane	MGPW063	PW-063A-01	1/15/2013	spigot on wellhead	TB-01-01 FD-02-01
28 Moriah Lane	MGPW063	PW-063B-01	1/15/2013	spigot on house	TB-01-01
536 School Road	MGPW133	PW-133-01	1/15/2013	spigot on house	TB-01-01
83 Hemlock Street	MGPW149	PW-149A-01	1/16/2013	spigot on wellhead	TB-02-01
83 Hemlock Street	MGPW149	PW-149B-01	1/16/2013	spigot on house	TB-02-01
23 Ralph's Lane	MGPW103	PW-103A-01	1/16/2013	spigot on wellhead	TB-02-01
23 Ralph's Lane	MGPW103	PW-103B-01	1/16/2013	spigot on house	TB-02-01
655 School Road	MGPW157	PW-157A-01	1/16/2013	spigot on wellhead	TB-02-01
655 School Road	MGPW157	PW-157B-01	1/16/2013	spigot on house	TB-02-01
16 Wineberry Lane	MGPW101	PW-101A-01	1/16/2013	spigot on pressure tank	TB-02-01 FD-03-01
16 Wineberry Lane	MGPW101	PW-101B-01	1/16/2013	sample port on IRM system	TB-02-01
624 School Road	MGPW058	PW-058A-01	1/16/2013	spigot on wellhead	TB-02-01
624 School Road	MGPW058	PW-058B-01	1/16/2013	spigot on house	TB-02-01
619 School Road	MGPW060	PW-060A-01	1/16/2013	spigot on wellhead	TB-02-01
619 School Road	MGPW060	PW-060B-01	1/16/2013	spigot on house	TB-02-01
19 Chipping Green Drive	MGPW039	PW-039A-01	1/16/2013	spigot on wellhead	TB-02-01
19 Chipping Green Drive	MGPW039	PW-039B-01	1/16/2013	sample port on IRM system	TB-02-01
2 Forest Run Drive	MGPW146	PW-146A-01	1/17/2013	sample port on IRM system	TB-03-01
2 Forest Run Drive	MGPW146	PW-146B-01	1/17/2013	spigot on house	TB-03-01
117 Russet Lane	MGPW046	PW-046-01	1/17/2013	spigot on wellhead	TB-03-01
35 Walsh Trace Drive	MGPW047	PW-047A-01	1/17/2013	spigot on wellhead	TB-03-01
35 Walsh Trace Drive	MGPW047	PW-047B-01	1/17/2013	spigot on house	TB-03-01
901 Weston Road	MGPW132	PW-132-01	1/18/2013	spigot on wellhead	TB-04-01
21 Ralph's Lane	MGPW121	PW-121A-01	1/18/2013	spigot on wellhead	TB-04-01
21 Ralph's Lane	MGPW121	PW-121B-01	1/18/2013	kitchen sink	TB-04-01
33 Deseret Drive	MGPW136	PW-136A-01	1/18/2013	sample port on IRM system	TB-04-01
33 Deseret Drive	MGPW136	PW-136B-01	1/18/2013	sample port on IRM system	TB-04-01

Notes:

Prepared By: LRG 1/22/13

Checked By: SEK 1/22/13

1. Station IDs provided by USEPA.
2. IRM - Interim Response Measure (Respondent-installed filtration system).
3. Samples denoted with "A" collected before the IRM system and samples denoted with "B" collected after the IRM system.
4. Samples without an "A" or "B" were collected from wells that do not have an IRM system installed.

FIGURES

Sampling Quarter Key

- First Quarter
- Second Quarter
- Third Quarter
- Fourth Quarter

Locations included in quarterly monitoring updated 1/28/13.

QUARTERLY DRINKING WATER WELL LOCATION MAP
CTS OF ASHEVILLE, INC. SUPERFUND SITE
ASHEVILLE, NORTH CAROLINA

DRAWN: SEK	DATE: MARCH 2013
DFT CHECK: MEW	SCALE: NOT TO SCALE
ENG CHECK: --	PROJ: 6252-12-0006
APPROVAL: MEW	FIGURE: 1

REFERENCE: Parcels from Buncombe County GIS.

NORTH

LEGEND

Well Sampled in January 2013

amec

DRINKING WATER WELLS SAMPLED IN JANUARY 2013
CTS OF ASHEVILLE, INC. SUPERFUND SITE
ASHEVILLE, NORTH CAROLINA

DRAWN: SEK	DATE: MARCH 2013
DFT CHECK: MEW	SCALE: NOT TO SCALE
ENG CHECK: --	PROJ: 6252-12-0006
APPROVAL: MEW	FIGURE: 2

REFERENCE: Parcels from Buncombe County GIS.

APPENDIX A

LOGBOOK AND FIELD DATA RECORDS

CONTENTS

PAGE	REFERENCE	DATE

Location CTS of Asheville Date 1/14/13
Project / Client Water Supply Monitoring - Q1
625212.0006 S. Kelly/AMEC Page 1 of 3

1215 - arrive at Earthfare; Ryan Stubbs (OTTE) is at Efare
- weather today expected to be light to heavy rain, mid-50's
1255 - S. Kelly & Jason Avitt (AMEC) leave Efare
- purchase ice
- drive to 5 Forest Run Drive
1305 - arrive at 5 Forest Run Drive
station ID MGPW091
- collect samples PW-091A-01 (1340) and PW-091B-01 (13:45)
- see FDR
1355 - leave 5 Forest Run Drive
- to 19 Chipping Green Drive
station ID MGPW039
- resident is not home to give access to garage for sampling at IRM system
1410 - to 35 Chapel Hill Church Road (station ID MGPW087)
- EPA ~~for~~ 1/14/13 historically sampled from spigot at wellhead however homeowner has modified wellhead and there is no longer

Location CTS of Asheville Date 1/14/13
Project / Client Water Supply monitoring - Q1
6252120006 S.Kelly/AMEC page 2 of 3

a spigot at the wellhead
- identify a spigot on the house at 33 Chapel Hill Church road which shares the well located at 35 Chapel Hill Church Road
1450 - collect sample PW-087-01 at spigot on house of 33 Chapel Hill church road; see FDR
1455 - leave 33/35 Chapel Hill Church Road
- to 5 Helton Drive (Station ID MGPW151) collect sample PW-151A-01 (15:30) and PW-151B-01 (1535) and FD-01 (with PW-151A-01); see FDR
1550 ~~1450~~ SP 1/14/13 - leave 5 Helton Drive; R. Stubbs leaves
- conduct IRM inspection (see IRM Implementation log book
1630 - complete IRM inspection
- meet with Samantha Urquhart-Foster (EPA) and discuss sample collected at 33/35 Chapel Hill Church Road
- S.V. Foster recalls that there is a filtration system (corner-installed

Location CTS of Asheville Date SP 1/14/13 ~~1~~/14/13
Project / Client Water Supply Monitoring - Q1
6252120006 S.Kelly/AMEC page 3 of 3

at the home of 33 Chapel Hill Church Rd
- S.V. Foster contacts homeowner of 35 Chapel Hill Church Road and homeowner indicates they recently removed the spigot from the wellhead and ~~confirm~~ SP 1/14/13 confirmed filtration system at 33 Chapel Hill Church Road; homeowner will re-plumb a "yard spigot" that we can sample from; homeowner will call S.V. Foster to indicate when this has been completed so that we can go collect a non-filtered sample from yard spigot.
1645 - calibration verification check conducted:

Turbidity:	pH:
< 0.1 NTU → 0.61 NTU	4 → 3.98 SU
20 NTU → 24 NTU	7 → 7.04 SU
100 NTU → 115 NTU	10 → 10.14 SU

conductivity: 1.413 mS/cm → 1.423 mS/cm
- S. Kelly & J. Avritt leave for the day

SMankey 1/14/13

Location CTS of Asheville Date 1/15/13
Project / Client Water Supply Monitoring - Q1
6252120006 S.Kelly/AMEC page 1 of 4

7:30 - S.Kelly/AMEC and J.Avritt travel to site
- water quality meter and turbidity meter were calibrated before leaving (see calibration FDR)
- weather today: rain, upper 40s (F)
- purchase ice for sample preservation

815 - arrive at 11 Forest Run Drive (station ID MGPW026)
- Ryan Stubbs (OTIE, contractor for EPA is waiting for us at residence
- collect sample PW-026A-01 (8:40) and PW-026B-01 (8:45); see FDR
- R.Stubbs checks wellhead for spigot → no spigot at wellhead

850 - leave 11 Forest Run Drive
- to 12 Bethel Drive (well has not previously been sampled by EPA)
- exterior spigots have been winterized and IRM ~~is~~ SK 1/15/13 is in basement ~~so~~ and there is no where to discharge the purged water SK 1/15/13
- Purge at kitchen sink
- collect samples PW-156A-01 (9:15)

Location CTS of Asheville Date 1/15/13
Project / Client Water Supply monitoring - Q1
6252120006 S.Kelly/AMEC page 2 of 4

and PW-156B-01 (9:20); see FDR
- pre-system sample collected from spigot at wellhead

925 - leave 12 Bethel Drive
- to 114 Russet Lane (Station ID MGPW014)
- purge from post-system (IRM) sample port; pre-system sample collected from spigot at wellhead
- collect sample PW-014A-01 (9:55) and PW-014B-01 (10:00); see FDR

1005 - leave 114 Russet Lane
- to Earthfare to meet EPA and conduct IRM design/inspections (see IRM Implementation log book

1325 - to 30 Moriah Lane (station ID MGPW143)
- purge/sample (post-IRM system) at exterior spigot; pre-sample from spigot at wellhead
- collect sample ~~WAV~~ SK 1/15/13 PW-143A-01 (14:00) and PW-143B-01 (14:05); see FDR

1410 - leave 30 Moriah Lane
- to 28 Moriah Lane (station ID MGPW063)

Location CTS of Asheville Date 1/15/13

Project / Client Water Supply Monitoring

6252120006 S. Kelly / AMEC page 3 of 4

- purge / sample at post-IRM system exterior spigot; collect pre-system sample at wellhead spigot
- collect sample PW-063A-01 (14:35) and PW-063B-01 (14:40)
- also collect FD-02-01 (with PW-063A-01)

1455 - to store to purchase additional ice for cooler

1510 - to 901 Weston Road

1515 - at 901 Weston Road (Station ID MGPW132)

- begin to purge well but soon well stops pumping; it is apparent that well has been turned off by homeowner
- will contact EPA so they can contact homeowner about sampling well

1525 - leave 901 Weston Road

- to 536 School Road (Station ID MGPW133)
- collect sample (and purge) from spigot on house (where EPA previously sampled)

Location CTS of Asheville Date 1/15/13

Project / Client Water Supply Monitoring

6252120006 S. Kelly / AMEC page 4 of 4

- collect sample PW-133-01 (15:55)

1600 - leave 536 School Road

- to laboratory to drop off cooler of samples
- pack cooler as specified in QAPP

1650 - arrive at lab (Pace Analytical) and sign over chain-of-custody to lab custodian

- lab personnel will courier cooler to Charlotte Pace lab for analysis.

1700 - S. Kelly and J. Avritt leave lab

- finished for the day

Reviewed 1/15/13

Location CTS of Asheville Date 1/16/13

Project / Client Water Supply Monitoring - Q1

6252120006 S. Kelly / AMEC ~~1/15/13~~ 1/16/13 page 1 of 3

7:30 S. Kelly / AMEC and J Avritt / AMEC travel to site

- water quality meter and turbidity meter were calibrated before leaving (see calibration FDR)
- weather today: rain, mid-50's (F)

8:00 - arrive at 83 Hemlock Street

- collect sample PW-149A-01 (8:35) and PW-149B-01 (8:40); see FDR

855 - leave 83 Hemlock Street

- talk to lab Project Manager - he indicated there was a sample in the cooler that was not on the COC; this is the sample collected at 33 Chapel Hill Church Road. I directed lab to dispose of this sample as it should not be analyzed ~~and~~ 1/16/13 as discussed with AMEC PM and Samantha Urquhart - Foster EPA

910 - arrive at 23 Ralph's Lane (Station MGPW103)

- collect sample PW-103A-01 (9:35) and PW-103B-01 (9:40); see FDR

945 - leave 23 Ralph's Lane

Location CTS of Asheville Date 1/16/13

Project / Client Water Supply Monitoring - Q1

6252120006 S. Kelly / AMEC Page 2 of 3

945 - to 655 School Road (Station ID MGPW157)

- collect sample PW-157A-01 (10:20) and PW-157B-01 (10:25); see FDR

1030 - ~~to~~ 1/16/13 leave 655 School Road

- to store to purchase ice

1055 - to 16 Wineberry Lane (Station ID MGPW101)

- collect sample PW-101A-01 (11:35) and PW-101B-01 (11:40)
- also collect FD-03-01 with PW-101A-01

1150 - leave 16 Wineberry Lane

- take lunch

1300 - to 624 School Road (Station MGPW058)

- collect sample PW-058A-01 (13:40) and PW-058B-01 (13:45)

1355 ~~133~~ - leave 624 School Road 1/16/13

- to gas station for bathroom break

1410 - to 619 School Road (Station MGPW060)

- collect sample PW-060A-01 (14:35) and PW-060B-01 (14:30)

1435 - leave 619 School Road

- to 19 Chipping Green drive

1445 - at 19 Chipping Green Drive (Station MGPW039)

Location CTS of Asheville Date 1/16/13

Project / Client Water Supply Monitoring - Q1

6252120006 S.Kelly/AMEC page 3 of 3

1515 - homeowner returns home
- begin to purge/sample
- collect sample PW-039A-01 (15:50) and PW-039B-01 (15:55); see FDR

1600 - leave 19 Chipping Green Drive
- stop at a park on the way to the lab and pack cooler
- to lab (Pace)

1635 - arrive at lab and sign over chain-of-custody to lab custodian
- lab personnel will courier cooler/samples to Charlotte Pace lab for analysis

1645 - S.Kelly and J.Auritt leave lab
- finished for the day

Manbel 1/16/13

Location CTS of Asheville Date 1/17/13

Project / Client Water Supply Monitoring - Q1

6252120006 S.Kelly/AMEC page 1 of 2

730 - S.Kelly and J.Auritt driving to site
- purchase ice at store

800 - arrive at 2 Forest Run Drive
- Ryan Stubbs (OTIE, contractor for EPA is at residence)
- calibrate water quality meter and turbidity meter (see calibration FDR)

930 - begin to purge from spigot on house
- collect sample PW-146A-01 (9:45) and ~~PW-0~~ 1/17/13 PW-146B-01 (9:50)
See FDR

955 - leave 2 Forest Run Drive
- to 117 Russet Lane station (MGPW009)
- purge/sample from spigot at wellhead (no RM system) at this location
- homeowner indicated that there is an iron bacteria problem and that she had a treatment system installed; one component injects chlorine

↳ station MGPW146

Location CTS of Asheville Date 1/17/13

Project / Client Water Supply Monitoring-Q1

62521200006 S.Kelly/AMEC page 2 of 2

into the well at the wellhead
- chlorine odor noted in purge water
- collect sample PW-046-01 (10:25)

10:35 - leave 117 Russet Lane
- to store to break until next appointment; R.Stubbs leaves for day

10:55 - to 35 Walsh Trace Drive (station MGPW047
- collect sample PW-047A-01 (11:20) and PW-047B-01 (11:25)

1130 - leave 35 Walsh Trace Drive
- take lunch

1230 - to lab to drop off cooler/samples
- stop at park on way to lab to pack cooler

1300 - arrive at lab and sign over chain of custody to lab custodian
- lab personnel will courier cooler/samples to Pace lab in Charlotte for analysis

1310 - S.Kelly and J.Avrit leave lab
- finished for the day

Location CTS of Asheville Date 1/18/13

Project / Client Water Supply Monitoring-Q1

62521200006 S.Kelly/AMEC page 1 of 2

1410 - S.Kelly/AMEC and J.Avrit/AMEC driving to site
- water quality meter and turbidity calibrated at office (see calibration FDR)
- weather today: sunny, mid-40's (F)
- purchase ice at store en route to site

1435 - arrive at 901 Weston Road (station ID ~~MGPW~~ SD 1/18/13 MGPW132)
- purge/sample from wellhead spigot; pump turned off when pumping at high flow rate, so purge at lower flow rate with spigot on house open as well
- collect sample PW-132-01 (14:55); see FDR

1500 - leave 901 Weston Road
- to 21 Ralph's Lane (station MGPW121)
- collect sample PW-121A-01 (15:25) and PW-121B-01 (15:30); see FDR

1540 - leave 21 Ralph's Lane
- to 33 Deseret Drive (station MGPW136)
- collect sample PW-136A-01 (16:05)

Location CTS of Asheville Date 1/18/13

Project / Client Water Supply Monitoring - Q1

6252120000 S. Kelly / AMEL page 2 of 2

and PW-136B-01 (16'-10'); see FDR
- pack cooler

1615 - leave 33 Deseret Drive
- drive to lab (Pace)

1655 - arrive at lab
- sign over chain-of-custody to lab custodian
- lab personnel will carrier cooler/samples to Pace Charlotte lab for analysis

1700 - S. Kelly and J. Avritt leave lab to Fed Ex to ship water quality meter and turbidity meter

1715 - leave FedEx
- finished for the day

S. Kelly 1/18/13

Location Date

Project / Client

FIELD INSTRUMENT CALIBRATION RECORD

Project Name: CTS of Asheville, Inc. Superfund Site — Date: 1/14/13

Project Number: 6252-12-0006.0004 (Water Supply Monitoring - Q1) — Name: S. Kelly

Water Quality Meter Calibration

	Standard Value		Meter Value		Acceptance Criteria
Manufacturer: YSI	pH: 4/7/10	SU	pH: 3.98/7.00/10.10	SU	+/- 10% of standard
Model No.: 63	Conductivity: 1.413	mS/cm	Conductivity: 1.413	mS/cm	+/- 10% of standard
Unit ID: 8938	Redox: —	+/- mV	Redox: —	+/- mV	see note 1
	DO: —	mg/L *	DO: —	mg/L	+/- 10% of standard
	Thermometer Temperature: —	C°	Temperature: —	C°	+/- 2.0 C°

Turbidity Meter Calibration

	Standard Value		Meter Value		Acceptance Criteria
Manufacturer: Hach	0.4* → <0.1	NTU (low)	0.5	NTU	+/- 10% of standard
Model No.: 2100P	20	NTU (med)	21.3	NTU	+/- 10% of standard
Unit ID: 03057	100	NTU (high)	97.4	NTU	+/- 10% of standard

Photoionization Detector

						Acceptance Criteria
Manufacturer:	Background:	ppmv	Meter:	ppmv	within 5 ppmv of Zero
Model No.:	Span Gas:	ppmv	Meter:	ppmv	+/- 10% of standard
Unit ID:					

Calibration Sources

	Source	Value		Lot Number	Expiration Date
pH	Pine (Hanna)	4	SU	4347	4/17
Conductivity	Pine	1.413	mS/cm	2AE883	5/31/~~12~~ 13
Redox:			mV		
Turbidity (low)	Hach (formazin)	<0.1	NTU	A1061	3/12
Turbidity (med):	Hach (formazin)	20	NTU	A1140	5/12
Turbidity (high):	Hach (formazin)	100	NTU	0298	10/11
~~PID gas:~~ pH	Pine (Hanna)	7	~~ppmv~~ SU	9736	6/5/13
~~Other:~~ pH	Pine (Hanna)	10	SU	9912	9/19/13

NOTES:

*meter calibrates to 0.4NTU but calibration solution indicates <0.1

* = Indicate in notes section what was used as the DO standard (i.e., based on saturation at room temperature)

** = If the meter reading is not within acceptance criteria, clean or replace probe and re-calibrate, or use a different meter if available. If project requirements necessitate use of the instrument, clearly document on all data sheets and log book entries that the parameter was not calibrated to the acceptance criteria.

1 = meter must read within specified range of the Zobell solution (usually 231 +/- 10 mv).

FIELD INSTRUMENT CALIBRATION RECORD

Project Name: CTS of Asheville, Inc. Superfund Site — Date: 1/15/13

Project Number: 6252-12-0006.0004 (Water Supply Monitoring - Q1) — Name: S. Kelly

Water Quality Meter Calibration

	Standard Value		Meter Value		Acceptance Criteria
Manufacturer: YSI	pH: 4/7/10	SU	pH: 3.98/7.00/10.10	SU	+/- 10% of standard
Model No.: 63	Conductivity: 1.413	mS/cm	Conductivity: 1.413	mS/cm	+/- 10% of standard
Unit ID: 8938	Redox: —	+/- mV	Redox: —	+/- mV	see note 1
	DO: —	mg/L *	DO: —	mg/L	+/- 10% of standard
	Thermometer Temperature: —	C°	Temperature: —	C°	+/- 2.0 C°

Turbidity Meter Calibration

	Standard Value		Meter Value		Acceptance Criteria
Manufacturer: Hach	0.4	NTU (low)*	0.50	NTU	+/- 10% of standard
Model No.: 2100P	20	NTU (med)	20.7	NTU	+/- 10% of standard
Unit ID: 03057	100	NTU (high)	99.0	NTU	+/- 10% of standard

Photoionization Detector

					Acceptance Criteria
Manufacturer:	Background:	ppmv	Meter:	ppmv	within 5 ppmv of Zero
Model No.:	Span Gas:	ppmv	Meter:	ppmv	+/- 10% of standard
Unit ID:					

Calibration Sources

	Source	Value		Lot Number	Expiration Date
pH	Pine (Hanna)	4	SU	4347	4/17
Conductivity	Pine	1.413	mS/cm	2AE883	5/31/13
Redox:			mV		
Turbidity (low)	Hach (Formazin)	<0.1	NTU	A1061	3/12
Turbidity (med):	Hach (Formazin)	20	NTU	A1140	5/12
~~Turbidity (high):~~	~~Hach (Formazin)~~	~~100~~	~~NTU~~	~~0298~~	~~10/11~~
~~PID gas:~~ pH	Pine (Hanna)	7	~~ppmv~~ SU	9736	6/5/13
~~Other:~~	Pine (Hanna)	10	SU	9912	9/19/13

NOTES:

*meter calibrates to 0.4 NTU but ~~bu~~ SK 1/15/13 calibration solution says <0.1

* = Indicate in notes section what was used as the DO standard (i.e., based on saturation at room temperature)

** = If the meter reading is not within acceptance criteria, clean or replace probe and re-calibrate, or use a different meter if available. If project requirements necessitate use of the instrument, clearly document on all data sheets and log book entries that the parameter was not calibrated to the acceptance criteria.

1 = meter must read within specified range of the Zobell solution (usually 231 +/- 10 mv).

FIELD INSTRUMENT CALIBRATION RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Date: 1/16/13

Project Number: 6252-12-0006.0004 (Water Supply Monitoring - Q1)

Name: S. Kelly

Water Quality Meter Calibration

	Standard Value		Meter Value		Acceptance Criteria
Manufacturer: YSI	pH: 4/7/10	SU	pH: 3.86/7.04/10.11	SU	+/- 10% of standard
Model No.: 63	Conductivity: 1.413	mS/cm	Conductivity: 1.410	mS/cm	+/- 10% of standard
Unit ID: 8938	Redox: —	+/- mV	Redox: —	+/- mV	see note 1
	DO: —	mg/L *	DO: —	mg/L	+/- 10% of standard
	Thermometer Temperature: —	C°	Temperature: —	C°	+/- 2.0 C°

Turbidity Meter Calibration

	Standard Value		Meter Value		Acceptance Criteria
Manufacturer: Hach	0.4	NTU (low)*	0.52	NTU	+/- 10% of standard
Model No.: 2100P	20	NTU (med)	21.0	NTU	+/- 10% of standard
Unit ID: 03057	100	NTU (high)	99.5	NTU	+/- 10% of standard

Photoionization Detector

						Acceptance Criteria
Manufacturer:	Background:	ppmv	Meter:	ppmv	within 5 ppmv of Zero
Model No.:	Span Gas:	ppmv	Meter:	ppmv	+/- 10% of standard
Unit ID:					

Calibration Sources

	Source	Value		Lot Number	Expiration Date
pH	Pine (Hanna)	4	SU	4347	4/17
Conductivity	Pine	1.413	mS/cm	2AF883	5/31/13
Redox:			mV		
Turbidity (low)	Hach (Formazin)	<0.1	NTU	A1061	3/12
Turbidity (med):	Hach (Formazin)	20	NTU	A1140	5/12
Turbidity (high):	Hach (Formazin)	100	NTU	0298	10/11
~~PID gas:~~ pH	Pine (Hanna)	7	~~ppmv~~ SU	9736	6/5/13
~~Other:~~ pH	Pine (Hanna)	10	SU	9912	9/19/13

NOTES:

*meter calibrates to 0.4 NTU but calibration solution indicates <0.1

* = Indicate in notes section what was used as the DO standard (i.e., based on saturation at room temperature)

** = If the meter reading is not within acceptance criteria, clean or replace probe and re-calibrate, or use a different meter if available. If project requirements necessitate use of the instrument, clearly document on all data sheets and log book entries that the parameter was not calibrated to the acceptance criteria.

1 = meter must read within specified range of the Zobell solution (usually 231 +/- 10 mv).

FIELD INSTRUMENT CALIBRATION RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Date: 1/17/13

Project Number: 6252-12-0006.0004 (Water Supply Monitoring - Q1)

Name: S. Kelly

Water Quality Meter Calibration

	Standard Value		Meter Value		Acceptance Criteria
Manufacturer: YSI	pH: 4/7/10	SU	pH: 4.03/7.16/10.22	SU	+/- 10% of standard
Model No.: 63	Conductivity: 1.413	mS/cm	Conductivity: 1.416	mS/cm	+/- 10% of standard
Unit ID: 8938	Redox: —	+/- mV	Redox: —	+/- mV	see note 1
	DO: —	mg/L *	DO: —	mg/L	+/- 10% of standard
	Thermometer Temperature: —	C°	Temperature: —	C°	+/- 2.0 C°

Turbidity Meter Calibration

	Standard Value		Meter Value		Acceptance Criteria
Manufacturer: Hach	0.4	NTU (low) *	0.49	NTU	+/- 10% of standard
Model No.: 2100P	20	NTU (med)	19.8	NTU	+/- 10% of standard
Unit ID: 03057	100	NTU (high)	99.5	NTU	+/- 10% of standard

Photoionization Detector

					Acceptance Criteria
Manufacturer:	Background:	ppmv	Meter:	ppmv	within 5 ppmv of Zero
Model No.:	Span Gas:	ppmv	Meter:	ppmv	+/- 10% of standard
Unit ID:					

Calibration Sources

	Source	Value		Lot Number	Expiration Date
pH	Pine (Hanna)	4	SU	2AC547	3/14
Conductivity	Pine	1.413	mS/cm	2AE883	5/31/13
Redox:			mV		
Turbidity (low)	Hach (Formazin)	<0.1	NTU	A1061	3/12
Turbidity (med):	Hach (Formazin)	20	NTU	A1140	5/12
~~Turbidity (high):~~	~~Hach (Formazin)~~	~~100~~	~~NTU~~	~~0298~~	~~10/11~~
~~PID gas:~~ pH	Pine	7	~~ppmv~~ SU	2AE340	5/14
~~Other:~~ pH	Pine	10	SU	2AE261	5/14

NOTES:

*meter calibrates to 0.4 NTU but calibration solution indicates <0.1.

* = Indicate in notes section what was used as the DO standard (i.e., based on saturation at room temperature)

** = If the meter reading is not within acceptance criteria, clean or replace probe and re-calibrate, or use a different meter if available. If project requirements necessitate use of the instrument, clearly document on all data sheets and log book entries that the parameter was not calibrated to the acceptance criteria.

1 = meter must read within specified range of the Zobell solution (usually 231 +/- 10 mv).

FIELD INSTRUMENT CALIBRATION RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Date: 1/18/13

Project Number: 6252-12-0006.0004 (Water Supply Monitoring - Q1)

Name: S. Kelly

Water Quality Meter Calibration

		Standard Value		Meter Value		Acceptance Criteria
Manufacturer:	YSI	pH:	4/7/10 SU	pH:	4.00/7.04/10.13 SU	+/- 10% of standard
Model No.:	63	Conductivity:	1.413 mS/cm	Conductivity:	1.412 mS/cm	+/- 10% of standard
Unit ID:	8938	Redox:	— +/- mV	Redox:	— +/- mV	see note 1
		DO:	— mg/L *	DO:	— mg/L	+/- 10% of standard
		Thermometer Temperature:	— C°	Temperature:	— C°	+/- 2.0 C°

Turbidity Meter Calibration

		Standard Value		Meter Value		Acceptance Criteria
Manufacturer:	Hach	0.4	NTU (low) *	0.52	NTU	+/- 10% of standard
Model No.:	2100P	20	NTU (med)	21.6	NTU	+/- 10% of standard
Unit ID:	03057	100	NTU (high)	104	NTU	+/- 10% of standard

Photoionization Detector

						Acceptance Criteria
Manufacturer:		Background:	ppmv	Meter:	ppmv	within 5 ppmv of Zero
Model No.:		Span Gas:	ppmv	Meter:	ppmv	+/- 10% of standard
Unit ID:						

Calibration Sources

	Source	Value		Lot Number	Expiration Date
pH	Pine	4	SU	2AC547	3/14
Conductivity	Pine	1.413	mS/cm	2AE883	5/31/13
Redox:			mV		
Turbidity (low)	Hach (Formazin)	<0.1	NTU	A1061	3/12
Turbidity (med):	Hach (Formazin)	20	NTU	A1140	5/12
~~Turbidity (high):~~	~~Hach (Formazin)~~	~~100~~	~~NTU~~	~~0298~~	~~10/11~~
~~PID gas:~~ pH	Pine	7	~~ppmv~~ SU	2AE340	5/14
~~Other:~~ pH	Pine	10	SU	2AE261	5/14

NOTES:

*meter calibrates to 0.4 NTU but calibration solution indicates <0.1

* = Indicate in notes section what was used as the DO standard (i.e., based on saturation at room temperature)

** = If the meter reading is not within acceptance criteria, clean or replace probe and re-calibrate, or use a different meter if available. If project requirements necessitate use of the instrument, clearly document on all data sheets and log book entries that the parameter was not calibrated to the acceptance criteria.

1 = meter must read within specified range of the Zobell solution (usually 231 +/- 10 mv).

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 5 Forest Run Drive **Station ID:** M6PW091

Pre-filter Sample: PW-091A-01 **Sample Date/Time:** 1/14/13 13:40

Post-filter Sample: PW-091B-01 **Sample Date/Time:** 1/14/13 13:45

Purge Start Time: 13:21 **Purge Stop Time:** 13:40

QA/QC Sample(s): TB-01-01 **Volume Purged:** ~~115~~ 143 gallons (approximate) 1/14/13

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (µS/cm)	Turbidity (NTU)	Comments
initial	6.44	14.7	178.9	2	
13:24	6.53	13.8	168.9	1	
13:27	6.40	14.0	168.8	1	
13:31	6.41	14.4	167.5	1	
13:36	6.50	14.5	167.3	0	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~7.5 gpm
- purge/sample from post-IRM system sample port
- pre-IRM system sample collected from spigot at wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 5 Helton Drive **Station ID:** MGPW151

Pre-filter Sample: PW-151A-01 **Sample Date/Time:** 1/14/13 15:30

Post-filter Sample: PW-151B-01 **Sample Date/Time:** 1/14/13 15:35

Purge Start Time: 15:12 **Purge Stop Time:** 15:30

QA/QC Sample(s): TB-01-01 **Volume Purged:** 144 gallons (approximate)
FD-01-01 (PW-151A-01)

Time	pH	Temperature (°C)	Conductivity (~~mS/cm~~) (µS/cm)	Turbidity (NTU)	Comments
initial	6.50	13.3	153.2	1	
15:17	6.38	12.9	147.4	2	
15:22	6.39	13.4	156.5	1	
15:27	6.35	13.7	157.1	1	

If alternative units are indicated by meter, indicate the proper measurement units above.
°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~8gpm
- purge/sample from post-IPM system sample port
- pre-IPM system sample collected from spigot at wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 11 Forest Run Drive **Station ID:** MGPW026

Pre-filter Sample: PW-026A-01 **Sample Date/Time:** 1/15/13 8:40

Post-filter Sample: PW-026B-01 **Sample Date/Time:** 1/15/13 8:45

Purge Start Time: 8:22 **Purge Stop Time:** 8:39

QA/QC Sample(s): TB-01-01 **Volume Purged:** 85 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (µS/cm)	Turbidity (NTU)	Comments
initial	5.82	14.9	39.4	0.53	
8:27	5.67	13.5	78.0	0.33	
8:32	5.62	13.3	78.5	0.36	
8:37	5.59	13.5	80.0	0.34	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~5gpm *no spigot at wellhead
- purge/sample at exterior spigot on house
- pre-IRM system sample collected from IRM sample port

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 12 Bethel Drive **Station ID:** MGPW156

Pre-filter Sample: PW-156A-01 **Sample Date/Time:** 1/15/13 9:15

Post-filter Sample: PW-156B-01 **Sample Date/Time:** 1/15/13 9:20

Purge Start Time: 8:59 **Purge Stop Time:** 9:15

QA/QC Sample(s): TB-01-01 **Volume Purged:** 35 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (uS/cm)	Turbidity (NTU)	Comments
initial	6.38	16.2	60.3	0.20	
9:04	6.42	15.1	77.4	0.20	
9:09	6.43	14.6	~~91.1~~ 61.5 (SD 1/15/13)	0.33	
9:14	6.44	14.6	128.0	0.32	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- purge from kitchen sink (there are exterior spigots, but they are winterized)
- pre-system sample collected from spigot at wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 114 Russet Lane **Station ID:** MGPW014

Pre-filter Sample: PW-014A-01 **Sample Date/Time:** 1/15/13 9:55

Post-filter Sample: PW-014B-01 **Sample Date/Time:** 1/15/13 10:00

Purge Start Time: 9:38 **Purge Stop Time:** 9:55

QA/QC Sample(s): TB-01-01 **Volume Purged:** 85 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (µS/cm)	Turbidity (NTU)	Comments
initial	6.21	14.4	176.7	0.0	
9:43	6.21	14.3	168.2	0.33	
9:48	6.23	13.4	165.6	0.15	
9:53	6.23	13.1	162.9	0.29	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

flow rate = ~5 gpm

- pre-system sample from spigot at wellhead
- purge and sample from post-system sample port on IBM system

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avrit

Well Address: 30 Moriah Lane **Station ID:** MGPW143

Pre-filter Sample: PW-143A-01 **Sample Date/Time:** 1/15/13 14:00

Post-filter Sample: PW-143B-01 **Sample Date/Time:** 1/15/13 14:05

Purge Start Time: 13:42 **Purge Stop Time:** 13:59

QA/QC Sample(s): TB-01-01 **Volume Purged:** 102 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (uS/cm)	Turbidity (NTU)	Comments
initial	6.06	14.1	160.6	0.29	
13:47	6.04	14.1	159.7	0.63	
13:52	6.00	13.7	158.9	0.79	
13:57	6.01	14.1	159.5	0.28	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~6gpm
- purge/sample from post-IRM system exterior spigot on house
- pre-IRM system sample collected from spigot at wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 28 Moriah Lane **Station ID:** MGPW063

Pre-filter Sample: PW-063A-01 **Sample Date/Time:** 1/15/13 14:35

Post-filter Sample: PW-063B-01 **Sample Date/Time:** 1/15/13 14:40

Purge Start Time: 14:18 **Purge Stop Time:** 14:39

QA/QC Sample(s): TB-01-01 **Volume Purged:** 84 gallons (approximate)

FD-02-01 (PW-063A-01)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (µS/cm)	Turbidity (NTU)	Comments
initial	6.92	14.5	334.4	0.42	
14:23	6.91	14.4	316.5	0.30	
14:28	6.90	14.5	299.1	0.42	
14:33	6.85	14.6	264.8	0.55	
14:38	6.82	14.8	258.3	0.44	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

flow rate = ~4gpm

- Purge/sample at exterior spigot (post-IPM system)
- pre-system sample from spigot at wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 536 School Road **Station ID:** MGPW133

Pre-filter Sample: PW-133-01 **Sample Date/Time:** 1/15/13 15:55

Post-filter Sample: N/A **Sample Date/Time:** N/A

Purge Start Time: 15:36 **Purge Stop Time:** 15:55

QA/QC Sample(s): TB-01-01 **Volume Purged:** 160 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (µS/cm)	Turbidity (NTU)	Comments
initial	6.45	12.3	151.1	2.49	
15:41	6.46	14.5	151.7	1.12	
15:46	6.49	14.8	151.2	0.82	
15:51	6.51	15.0	151.4	0.89	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~8.5 gpm
- purge/sample at exterior spigot on house

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 83 Hemlock St. **Station ID:** MGPW149

Pre-filter Sample: PW-149A-01 **Sample Date/Time:** 1/16/13 8:35

Post-filter Sample: PW-149B-01 **Sample Date/Time:** 1/16/13 8:40

Purge Start Time: 8:19 **Purge Stop Time:** 8:44

QA/QC Sample(s): TB-02-01 **Volume Purged:** 100 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity (~~mS/cm~~) (µS/cm)	Turbidity (NTU)	Comments
initial	8.33	19.0	389.8	0.21	
8:24	8.62	16.1	376.7	0.23	
8:29	8.70	14.8	350.1	0.38	
8:34	8.77	13.8	251.2	0.21	
8:38	8.85	13.5	222.7	0.28	
8:43	8.90	14.0	214.2	0.27	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- purge/sample from exterior spigot on house
- pre-filter system sample collected at wellhead spigot
- flow rate ≈ ~5 gpm

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 23 Ralph's Lane **Station ID:** MGPW103

Pre-filter Sample: PW-103A-01 **Sample Date/Time:** 1/16/03 9:35

Post-filter Sample: PW-103B-01 **Sample Date/Time:** 1/16/03 9:40

Purge Start Time: 9:16 **Purge Stop Time:** 9:32

QA/QC Sample(s): TB-02-01 **Volume Purged:** 120 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (µS/cm)	Turbidity (NTU)	Comments
initial					
1/16/13 ~~09:18~~	7.12	12.1	156.7	0.44	
9:21	6.94	12.7	157.5	0.51	
9:26	6.89	13.8	155.9	0.40	
9:31	6.93	14.2	153.0	0.37	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

flow rate = ~7.5 gpm

- purge/sample from exterior spigot on house (post-IRM system)
- pre-IRM system sample from spigot at wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avrit

Well Address: 655 School Road **Station ID:** MGPW157

Pre-filter Sample: PW-157A-01 **Sample Date/Time:** 1/16/13 10:20

Post-filter Sample: PW-157B-01 **Sample Date/Time:** 1/16/13 10:25

Purge Start Time: 10:04 **Purge Stop Time:** 10:20

QA/QC Sample(s): TB-02-01 **Volume Purged:** 80 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (mS/cm)	Turbidity (NTU)	Comments
initial	6.01	14.1	73.2	0.51	
10:09	5.95	13.8	74.2	0.43	
10:14	5.98	13.2	73.8	0.33	
10:19	5.93	13.5	73.7	0.44	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = 5gpm
- purge/sample from exterior spigot on house (post-IRM system)
- pre-IRM system sample collected from spigot at wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 116 Wineberry Lane **Station ID:** MGPW101

Pre-filter Sample: PW-101A-01 **Sample Date/Time:** 1/16/13 11:35

Post-filter Sample: PW-101B-01 **Sample Date/Time:** 1/16/13 11:40

Purge Start Time: 11:16 **Purge Stop Time:** 11:33

QA/QC Sample(s): TB-02-01 **Volume Purged:** 136 gallons (approximate)

FD-03-01 (PW-101A-01)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (uS/cm)	Turbidity (NTU)	Comments
initial	5.75	14.5	70.8	0.38	
11:21	5.76	13.7	66.6	0.51	
11:26	5.72	13.4	67.8	2.75	
11:31	5.71	13.4	68.1	5.16	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~8gpm
- purge/sample from post-IRM system sample port
- pre-IRM system sample collected from spigot at pressure tank

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 624 School Road **Station ID:** MGPW058

Pre-filter Sample: PW-058A-01 **Sample Date/Time:** 1/16/13 13:40

Post-filter Sample: PW-058B-01 **Sample Date/Time:** 1/16/13 13:45

Purge Start Time: 13:20 **Purge Stop Time:** 13:37

QA/QC Sample(s): TB-02-01 **Volume Purged:** 85 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ µS/cm	Turbidity (NTU)	Comments
initial	6.86	13.0	177.1	0.86	
13:25	6.81	12.4	168.8	0.48	
13:30	6.76	12.0	167.2	0.33	
13:35	6.71	12.9	164.1	0.39	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

~ flow rate = ~5gpm

- purge/sample from exterior spigot on house (post-IPM system)
- pre-IPM system sample from spigot at wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 619 School Road **Station ID:** MGPW060

Pre-filter Sample: PW-060A-01 **Sample Date/Time:** 7/16/13 1435

Post-filter Sample: PW-060B-01 **Sample Date/Time:** 7/16/13 1430

Purge Start Time: 14:15 **Purge Stop Time:** 14:30

QA/QC Sample(s): TB-02-01 **Volume Purged:** 75 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ µS/cm	Turbidity (NTU)	Comments
initial	6.90	19.1	480.5	0.58	
14:20	7.08	16.1	481.2	0.31	
14:25	7.09	14.9	481.0	0.81	
14:30	7.08	14.5	479.1	0.39	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

flow rate ≈ 5 gpm

- purge/sample at exterior spigot on house
- pre-IRM system sample collected from spigot at well head

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S.Kelly & J.Avritt

Well Address: 19 Chipping Green **Station ID:** MGPW039

Pre-filter Sample: PW-039A-01 **Sample Date/Time:** 1/16/13 15:50

Post-filter Sample: PW-039B-01 **Sample Date/Time:** 1/16/13 15:55

Purge Start Time: 15:33 **Purge Stop Time:** 15:50

QA/QC Sample(s): TB-02-01 **Volume Purged:** 10 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (µS/cm)	Turbidity (NTU)	Comments
initial	5.85	16.3	73.6	0.35	
15:38	5.65	16.1	68.9	1.01	
15:43	5.68	15.9	68.7	0.63	
15:48	5.67	15.7	68.3	1.16	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~0.5gpm
- purge/sample from post-IRM system sample port
- pre-IRM system sample collected from spigot at wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 2 Forest Run Drive **Station ID:** MGPW146

Pre-filter Sample: PW-146A-01 **Sample Date/Time:** 1/17/13 9:45

Post-filter Sample: PW-146B-01 **Sample Date/Time:** 1/17/13 9:50

Purge Start Time: 9:28 **Purge Stop Time:** 9:45

QA/QC Sample(s): TB-03-01 **Volume Purged:** 68 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (µS/cm)	Turbidity (NTU)	Comments
initial	6.47	16.5	121.3	0.82	
9:33	6.56	14.8	108.0	0.65	
9:38	6.55	13.7	106.6	0.65	
9:43	6.57	13.3	106.6	0.35	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flowrate = ~4gpm
- purge/sample from exterior spigot on house (post-IRM system)
- pre-IRM system collected from sample port on system

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S.Kelly & J.Aurit

Well Address: 117 Russet Lane **Station ID:** MGPW046

Pre-filter Sample: PW-046-01 **Sample Date/Time:** 1/17/13 10:25

Post-filter Sample: N/A **Sample Date/Time:** N/A

Purge Start Time: 10:06 **Purge Stop Time:** 10:22

QA/QC Sample(s): TB-03-01 **Volume Purged:** 80 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ (µS/cm)	Turbidity (NTU)	Comments
initial	6.45	12.9	136.4	6.86	
10:11	6.33	13.4	138.4	8.64	
10:16	6.32	13.5	139.5	8.48	
10:21	6.30	13.5	136.9	7.41	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~5gpm
- purge/sample from spigot on wellhead
- there is an "iron bacteria control" device at wellhead
- owner indicates the device "injects" something into the well, maybe chlorine
- there is a chlorine odor in the purge water

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 35 Walsh Trace **Station ID:** MGPW047

Pre-filter Sample: PW-047A-01 **Sample Date/Time:** 1/17/13 11:20

Post-filter Sample: PW-047B-01 **Sample Date/Time:** 1/17/13 11:25

Purge Start Time: 11:01 **Purge Stop Time:** 11:20

QA/QC Sample(s): TB-03-01 **Volume Purged:** 95 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ uS/cm	Turbidity (NTU)	Comments
initial	6.63	15.0	268.4	0.59	
11:06	6.63	12.9	235.6	0.45	
11:11	6.60	12.5	207.3	0.46	
11:16	6.56	12.3	183.0	0.27	
11:20	6.49	12.7	171.6	0.13	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~5 gpm
- purge/sample from spigot on hose
- collect pre-IRM system sample at wellhead spigot

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S.Kelly & J.Avritt

Well Address: 901 Weston Road **Station ID:** MGPW132

Pre-filter Sample: PW-132-01 **Sample Date/Time:** 1/18/13 14:55

Post-filter Sample: N/A **Sample Date/Time:** N/A

Purge Start Time: 14:38 **Purge Stop Time:** 14:54

QA/QC Sample(s): TB-04-01 **Volume Purged:** 40 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ µS/cm	Turbidity (NTU)	Comments
initial	5.76	14.0	142.2	0.40	
14:43	5.75	13.4	136.3	0.49	
14:48	5.73	13.5	136.3	0.46	
14:53	5.70	13.6	135.0	~~0.34~~ 1/8/13 0.34	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate: 2.5gpm (pump turned off with higher flow rate, so purge at lower flow rate)
- purge/sample from spigot on wellhead

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 21 Ralphs Lane **Station ID:** MGPW121

Pre-filter Sample: PW-121A-01 **Sample Date/Time:** 1/18/13 15:25

Post-filter Sample: PW-121B-01 **Sample Date/Time:** 1/18/13 15:30

Purge Start Time: 15:09 **Purge Stop Time:** 15:25

QA/QC Sample(s): TB-04-01 **Volume Purged:** 32 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ mS/cm	Turbidity (NTU)	Comments
initial	7.59	25.8	165.3	0.26	
15:14	7.84	15.9	158.5	0.32	
15:19	7.81	15.4	160.9	0.32	
15:24	7.76	15.6	162.7	0.30	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~2 gpm
- purge/sample from kitchen sink (post-IRM system)
- pre-IRM system sample collected from spigot at wellhead

* exterior spigot(s) are directly from well (not through post-IRM system)

WATER SUPPLY WELL SAMPLING RECORD

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Personnel: S. Kelly & J. Avritt

Well Address: 33 Deseret Drive **Station ID:** MGPW136

Pre-filter Sample: PW-136A-01 **Sample Date/Time:** 1/18/13 16:05

Post-filter Sample: PW-136B-01 **Sample Date/Time:** 1/18/13 16:10

Purge Start Time: 15:49 **Purge Stop Time:** 16:05

QA/QC Sample(s): TB-04-01 **Volume Purged:** 16.0 gallons (approximate)

Time	pH	Temperature (°C)	Conductivity ~~(mS/cm)~~ mS/cm	Turbidity (NTU)	Comments
initial	7.39	11.4	146.0	0.79	
15:54	7.29	11.0	142.0	0.41	
15:59	7.19	12.4	141.0	0.30	
16:04	7.18	13.2	140.9	0.35	

If alternative units are indicated by meter, indicate the proper measurement units above.

°C - degrees Celcius; mS/cm - milliSiemens per centimeter; NTU - nephelometric turbidity units

Notes/Comments:

- flow rate = ~10 gpm
- purge / sample from post-IRM system sample port
- pre-IRM system collected from pre-system sample port

WATER SUPPLY MONITORING - SAMPLE SUMMARY FORM

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Sample ID	Sampler's Initials	Sample Date	Sample Time	Associated QA/QC Sample(s)	Notes/Comments
PW-091A-01	SEK	1/14/13	13:40	TB-01-01	
PW-091B-01	SEK	1/14/13	13:45	TB-01-01	
PW-151A-01	SEK	1/14/13	15:30	FD-01-01 TB-01-01	
PW-151B-01	SEK	1/14/13	15:35	TB-01-01	
FD-01-01 (PW-151A-01)	SEK	1/14/13	00:00	TB-01-01	
		1/15/13			
PW-026A-01	SEK	1/15/13	08:40	TB-01-01	
PW-026B-01	SEK	1/15/13	08:45	TB-01-01	
PW-156A-01	SEK	1/15/13	09:15	TB-01-01	
PW-156B-01	SEK	1/15/13	09:20	TB-01-01	
PW-014A-01	SEK	1/15/13	09:55	TB-01-01	
PW-014B-01	SEK	1/15/13	10:00	TB-01-01	
PW-143A-01	SEK	1/15/13	14:00	TB-01-01	
PW-143B-01	SEK	1/15/13	14:05	TB-01-01	
PW-063A-01	SEK	1/15/13	14:35	FD-02-01 TB-01-01	
PW-063B-01	SEK	1/15/13	14:40	TB-01-01	
PW-133-01	SEK	1/15/13	15:55	TB-01-01	
FD-02-01 (PW-063A-01)	SEK	1/15/13	00:00	TB-01-01	
		1/16/13			
PW-149A-01	SEK	1/16/13	08:35	TB-02-01	
PW-149B-01	SEK	1/16/13	08:40	TB-02-01	
PW-103A-01	SEK	1/16/13	09:35	TB-02-01	
PW-103B-01	SEK	1/16/13	09:40	TB-02-01	
PW-157A-01	SEK	1/16/13	10:20	TB-02-01	
PW-157B-01	SEK	1/16/13	10:25	TB-02-01	

WATER SUPPLY MONITORING - SAMPLE SUMMARY FORM

Project Name: CTS of Asheville, Inc. Superfund Site

Project Number: 6252-12-0006.0004

Sample ID	Sampler's Initials	Sample Date	Sample Time	Associated QA/QC Sample(s)	Notes/Comments
PW-101A-01	SEK	1/16/13	11:35	FD-03-01 TB-02-01	
PW-101B-01	SEK	1/16/13	11:40	TB-02-01	
PW-058A-01	SEK	1/16/13	13:40	TB-02-01	
PW-058B-01	SEK	1/16/13	13:45	TB-02-01	
PW-060A-01	SEK	1/16/13	14:35	TB-02-01	
PW-060B-01	SEK	1/16/13	14:30	TB-02-01	
FD-03-01 (PW-101A-01)	SEK	1/16/13	00:00	TB-02-01	
PW-039A-01	SEK	1/16/13	15:50	TB-02-01	
PW-039B-01	SEK	1/16/13	15:55	TB-02-01	
		1/17/13			
PW-146A-01	SEK	1/17/13	09:45	TB-03-01	
PW-146B-01	SEK	1/17/13	09:50	TB-03-01	
PW-046-01	SEK	1/17/13	10:25	TB-03-01	
PW-047A-01	SEK	1/17/13	11:20	TB-03-01	
PW-047B-01	SEK	1/17/13	11:25	TB-03-01	
		1/18/13			
PW-132-01	SEK	1/18/13	14:55	TB-04-01	
PW-121A-01	SEK	1/18/13	15:25	TB-04-01	
PW-121B-01	SEK	1/18/13	15:30	TB-04-01	
PW-136A-01	SEK	1/18/13	16:05	TB-04-01	
PW-136B-01	SEK	1/18/13	16:10	TB-04-01	

APPENDIX B

PHOTOGRAPHS OF SAMPLING ACTIVITIES

Photograph No. 1: AMEC personnel collecting pre-IRM filtration system water sample from *spigot on wellhead*.
Date: January 15, 2013
Location: 114 Russet Lane
Photographer: Ryan Stubbs (OTIE)

Photograph No. 2: AMEC personnel measuring water quality parameters.
Date: January 15, 2013
Location: 30 Moriah Lane
Photographer: Ryan Stubbs (OTIE)

Photograph No. 3: *AMEC personnel collecting post-IRM filtration system water sample from* sample port.
Date: January 16, 2013
Location: 16 Chipping Green Drive
Photographer: Ryan Stubbs (OTIE)

APPENDIX C

LABORATORY ANALYTICAL REPORTS

RECEIVED
SEK 2/5/13
(full data package)

Total Pages: 225

Pace Analytical™
www.pacelabs.com

AMEC

Client Ref.: CTS of Asheville 6252120006

Pace-Charlotte Project No. 92144981

Pace Analytical Services, Inc.-Charlotte
9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 24, 2013

Ms. Susan Kelly
AMEC- Asheville
1308 Patton Avenue
Asheville, NC 28806

RE: Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Dear Ms. Kelly:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92144981001	**TB-01-01**	Water	01/14/13 00:00	01/15/13 16:57
92144981002	**FD-01-01**	Water	01/14/13 00:00	01/15/13 16:57
92144981003	**PW-091A-01**	Water	01/14/13 13:40	01/15/13 16:57
92144981004	**PW-091B-01**	Water	01/14/13 13:45	01/15/13 16:57
92144981005	**PW-151A-01**	Water	01/14/13 15:30	01/15/13 16:57
92144981006	**PW-151B-01**	Water	01/14/13 15:35	01/15/13 16:57
92144981007	**FD-02-01**	Water	01/15/13 00:00	01/15/13 16:57
92144981008	**PW-026A-01**	Water	01/15/13 08:40	01/15/13 16:57
92144981009	**PW-026B-01**	Water	01/15/13 08:45	01/15/13 16:57
92144981010	**PW-156A-01**	Water	01/15/13 09:15	01/15/13 16:57
92144981011	**PW-156B-01**	Water	01/15/13 09:20	01/15/13 16:57
92144981012	**PW-014A-01**	Water	01/15/13 09:55	01/15/13 16:57
92144981013	**PW-014B-01**	Water	01/15/13 10:00	01/15/13 16:57
92144981014	**PW-143A-01**	Water	01/15/13 14:00	01/15/13 16:57
92144981015	**PW-143B-01**	Water	01/15/13 14:05	01/15/13 16:57
92144981016	**PW-063A-01**	Water	01/15/13 14:35	01/15/13 16:57
92144981017	**PW-063B-01**	Water	01/15/13 14:40	01/15/13 16:57
92144981018	**PW-133-01**	Water	01/15/13 15:55	01/15/13 16:57

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92144981001	TB-01-01	EPA 8260	KJM	12	PASI-C
92144981002	FD-01-01	EPA 8260	KJM	12	PASI-C
92144981003	PW-091A-01	EPA 8260	KJM	12	PASI-C
92144981004	PW-091B-01	EPA 8260	KJM	12	PASI-C
92144981005	PW-151A-01	EPA 8260	KJM	12	PASI-C
92144981006	PW-151B-01	EPA 8260	KJM	12	PASI-C
92144981007	FD-02-01	EPA 8260	KJM	12	PASI-C
92144981008	PW-026A-01	EPA 8260	KJM	12	PASI-C
92144981009	PW-026B-01	EPA 8260	KJM	12	PASI-C
92144981010	PW-156A-01	EPA 8260	KJM	12	PASI-C
92144981011	PW-156B-01	EPA 8260	KJM	12	PASI-C
92144981012	PW-014A-01	EPA 8260	KJM	12	PASI-C
92144981013	PW-014B-01	EPA 8260	KJM	12	PASI-C
92144981014	PW-143A-01	EPA 8260	KJM	12	PASI-C
92144981015	PW-143B-01	EPA 8260	KJM	12	PASI-C
92144981016	PW-063A-01	EPA 8260	KJM	12	PASI-C
92144981017	PW-063B-01	EPA 8260	KJM	12	PASI-C
92144981018	PW-133-01	EPA 8260	KJM	12	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC, Asheville
Date: January 24, 2013

General Information:
18 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: TB-01-01 **Lab ID: 92144981001** Collected: 01/14/13 00:00 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 16:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 16:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 16:38	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 16:38	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 16:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 16:38	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 16:38	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 16:38	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		01/18/13 16:38	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		01/18/13 16:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		01/18/13 16:38	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/18/13 16:38	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: FD-01-01 **Lab ID: 92144981002** Collected: 01/14/13 00:00 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 17:10	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 17:10	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 17:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 17:10	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 17:10	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 17:10	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		01/18/13 17:10	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/18/13 17:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/18/13 17:10	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/18/13 17:10	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-091A-01 **Lab ID: 92144981003** Collected: 01/14/13 13:40 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 18:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 18:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 18:29	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 18:29	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 18:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 18:29	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 18:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 18:29	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/18/13 18:29	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/18/13 18:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		01/18/13 18:29	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/18/13 18:29	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-091B-01 **Lab ID: 92144981004** Collected: 01/14/13 13:45 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 18:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 18:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 18:45	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 18:45	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 18:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 18:45	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 18:45	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 18:45	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/18/13 18:45	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/18/13 18:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/18/13 18:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		01/18/13 18:45	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-151A-01 **Lab ID: 92144981005** Collected: 01/14/13 15:30 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 19:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 19:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 19:01	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 19:01	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 19:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 19:01	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 19:01	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 19:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/18/13 19:01	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		01/18/13 19:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/18/13 19:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/18/13 19:01	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-151B-01 **Lab ID: 92144981006** Collected: 01/14/13 15:35 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 19:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 19:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 19:17	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 19:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 19:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 19:17	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 19:17	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 19:17	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/18/13 19:17	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/18/13 19:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/18/13 19:17	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		01/18/13 19:17	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: FD-02-01 **Lab ID: 92144981007** Collected: 01/15/13 00:00 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 19:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 19:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 19:33	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 19:33	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 19:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 19:33	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 19:33	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 19:33	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		01/18/13 19:33	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/18/13 19:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/18/13 19:33	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/18/13 19:33	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-026A-01 **Lab ID: 92144981008** Collected: 01/15/13 08:40 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 19:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 19:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 19:49	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 19:49	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 19:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 19:49	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 19:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 19:49	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/18/13 19:49	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/18/13 19:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		01/18/13 19:49	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		01/18/13 19:49	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-026B-01 **Lab ID: 92144981009** Collected: 01/15/13 08:45 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 20:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 20:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 20:05	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 20:05	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 20:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 20:05	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 20:05	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 20:05	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		01/18/13 20:05	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/18/13 20:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		01/18/13 20:05	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/18/13 20:05	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-156A-01 **Lab ID: 92144981010** Collected: 01/15/13 09:15 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 20:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 20:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 20:21	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 20:21	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 20:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 20:21	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 20:21	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 20:21	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/18/13 20:21	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		01/18/13 20:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/18/13 20:21	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		01/18/13 20:21	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-156B-01 **Lab ID: 92144981011** Collected: 01/15/13 09:20 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 20:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 20:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 20:37	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 20:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 20:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 20:37	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 20:37	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 20:37	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/18/13 20:37	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/18/13 20:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/18/13 20:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/18/13 20:37	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-014A-01 **Lab ID: 92144981012** Collected: 01/15/13 09:55 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 20:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 20:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 20:53	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 20:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 20:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 20:53	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 20:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 20:53	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		01/18/13 20:53	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/18/13 20:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		01/18/13 20:53	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/18/13 20:53	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-014B-01 **Lab ID: 92144981013** Collected: 01/15/13 10:00 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 21:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 21:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 21:09	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 21:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 21:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 21:09	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 21:09	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 21:09	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/18/13 21:09	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/18/13 21:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		01/18/13 21:09	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/18/13 21:09	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-143A-01 **Lab ID: 92144981014** Collected: 01/15/13 14:00 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 21:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 21:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 21:25	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 21:25	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 21:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 21:25	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 21:25	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 21:25	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/18/13 21:25	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/18/13 21:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		01/18/13 21:25	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		01/18/13 21:25	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-143B-01 **Lab ID: 92144981015** Collected: 01/15/13 14:05 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 21:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 21:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 21:41	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 21:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 21:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 21:41	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 21:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 21:41	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/18/13 21:41	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/18/13 21:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/18/13 21:41	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/18/13 21:41	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-063A-01 **Lab ID: 92144981016** Collected: 01/15/13 14:35 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 21:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 21:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 21:56	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 21:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 21:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 21:56	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 21:56	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 21:56	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/18/13 21:56	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/18/13 21:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/18/13 21:56	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/18/13 21:56	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-063B-01 **Lab ID: 92144981017** Collected: 01/15/13 14:40 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 22:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 22:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 22:12	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 22:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 22:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 22:12	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 22:12	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 22:12	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/18/13 22:12	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/18/13 22:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		01/18/13 22:12	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/18/13 22:12	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Sample: PW-133-01 **Lab ID: 92144981018** Collected: 01/15/13 15:55 Received: 01/15/13 16:57 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/18/13 22:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/18/13 22:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/18/13 22:28	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/18/13 22:28	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/18/13 22:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/18/13 22:28	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/18/13 22:28	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/18/13 22:28	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/18/13 22:28	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		01/18/13 22:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		01/18/13 22:28	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/18/13 22:28	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

QC Batch: MSV/21750 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92144981001, 92144981002, 92144981003, 92144981004, 92144981005, 92144981006, 92144981007, 92144981008, 92144981009, 92144981010, 92144981011, 92144981012, 92144981013, 92144981014, 92144981015, 92144981016, 92144981017, 92144981018

METHOD BLANK: 907823 — Matrix: Water
Associated Lab Samples: 92144981001, 92144981002, 92144981003, 92144981004, 92144981005, 92144981006, 92144981007, 92144981008, 92144981009, 92144981010, 92144981011, 92144981012, 92144981013, 92144981014, 92144981015, 92144981016, 92144981017, 92144981018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/18/13 16:06	
1,1-Dichloroethene	ug/L	ND	1.0	01/18/13 16:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/18/13 16:06	
Tetrachloroethene	ug/L	ND	1.0	01/18/13 16:06	
Toluene	ug/L	ND	1.0	01/18/13 16:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/18/13 16:06	
Trichloroethene	ug/L	ND	1.0	01/18/13 16:06	
Vinyl chloride	ug/L	ND	1.0	01/18/13 16:06	
1,2-Dichloroethane-d4 (S)	%	104	70-130	01/18/13 16:06	
4-Bromofluorobenzene (S)	%	101	70-130	01/18/13 16:06	
Dibromofluoromethane (S)	%	104	70-130	01/18/13 16:06	
Toluene-d8 (S)	%	101	70-130	01/18/13 16:06	

LABORATORY CONTROL SAMPLE: 907824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.0	96	70-130	
1,1-Dichloroethene	ug/L	50	42.0	84	70-132	
cis-1,2-Dichloroethene	ug/L	50	44.8	90	70-131	
Tetrachloroethene	ug/L	50	46.4	93	70-130	
Toluene	ug/L	50	47.6	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.0	86	70-130	
Trichloroethene	ug/L	50	46.0	92	70-130	
Vinyl chloride	ug/L	50	48.0	96	69-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 907825 907826

Parameter	Units	92144981002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	54.1	49.6	108	99	70-166	9	30	
Toluene	ug/L	ND	50	50	58.8	52.9	118	106	70-155	10	30	
Trichloroethene	ug/L	ND	50	50	57.4	52.2	115	104	69-151	9	30	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 907825 907826

Parameter	Units	92144981002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						103	105	70-130			
4-Bromofluorobenzene (S)	%						99	99	70-130			
Dibromofluoromethane (S)	%						101	102	70-130			
Toluene-d8 (S)	%						99	97	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CTS of Asheville 6252120006
Pace Project No.: 92144981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92144981001	**TB-01-01**	EPA 8260	MSV/21750		
92144981002	**FD-01-01**	EPA 8260	MSV/21750		
92144981003	**PW-091A-01**	EPA 8260	MSV/21750		
92144981004	**PW-091B-01**	EPA 8260	MSV/21750		
92144981005	**PW-151A-01**	EPA 8260	MSV/21750		
92144981006	**PW-151B-01**	EPA 8260	MSV/21750		
92144981007	**FD-02-01**	EPA 8260	MSV/21750		
92144981008	**PW-026A-01**	EPA 8260	MSV/21750		
92144981009	**PW-026B-01**	EPA 8260	MSV/21750		
92144981010	**PW-156A-01**	EPA 8260	MSV/21750		
92144981011	**PW-156B-01**	EPA 8260	MSV/21750		
92144981012	**PW-014A-01**	EPA 8260	MSV/21750		
92144981013	**PW-014B-01**	EPA 8260	MSV/21750		
92144981014	**PW-143A-01**	EPA 8260	MSV/21750		
92144981015	**PW-143B-01**	EPA 8260	MSV/21750		
92144981016	**PW-063A-01**	EPA 8260	MSV/21750		
92144981017	**PW-063B-01**	EPA 8260	MSV/21750		
92144981018	**PW-133-01**	EPA 8260	MSV/21750		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1671375

Section A Required Client Information:

Company: AMEC
Address: 1308 Patton Ave Asheville NC 28806
Email To: susan.kelly@amec.com
Phone: 8282528130 Fax:
Requested Due Date/TAT: Std.

Section B Required Project Information:

Report To: Susan Kelly
Copy To:
Purchase Order No.: C012101936
Project Name: CTS of Asheville
Project Number: 62521200006

Section C Invoice Information:

Attention: Susan Kelly
Company Name: AMEC
Address: 1308 Patton Ave, Asheville
Pace Quote Reference:
Pace Project Manager: Kevin Godwin
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260 VOCs*	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92144981
1	TB-01-01	WT	G	N/A	N/A	lab prep			2				X					X		001
2	FD-01-01	WT	G			1/14/13	00:00		3				X					X		002
3	PW-091A-01	WT	G			1/14/13	13:40		3				X					X		003
4	PW-091B-01	WT	G			1/14/13	13:45		3				X					X		004
5	PW-151A-01	WT	G			1/14/13	15:30		3				X					X		005
6	PW-151B-01	WT	G			1/14/13	15:35		3				X					X		006
7	FD-02-01	WT	G			1/15/13	00:00		3				X					X		007
8	PW-026A-01	WT	G			1/15/13	8:40		3				X					X		008
9	PW-026B-01	WT	G			1/15/13	8:45		3				X					X		009
10	PW-156A-01	WT	G			1/15/13	9:15		3				X					X		010
11	PW-156B-01	WT	G			1/15/13	9:20		3				X					X		011
12	PW-014B-01	WT	G	N/A	N/A	1/15/13	9:55		3				X					X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Site-specific compound list	Susan Kelly/AMEC	1/15/13	16:57		1/15/13	16:57	0.8	Y	Y 1/15/13	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SUSAN KELLY

SIGNATURE of SAMPLER: Susan Kelly

DATE Signed (MM/DD/YY): 1/15/13

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

RECEIVED
SEK 2/5/13
(full data package)

Total Pages: 217

Pace Analytical™
www.pacelabs.com

AMEC

Client Ref.: CTS of Asheville 6252120006

Pace-Charlotte Project No. 92145197

Pace Analytical Services, Inc.-Charlotte
9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 23, 2013

Ms. Susan Kelly
AMEC- Asheville
1308 Patton Avenue
Asheville, NC 28806

RE: Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Dear Ms. Kelly:
Enclosed are the analytical results for sample(s) received by the laboratory on January 16, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92145197001	**TB-02-01**	Water	01/16/13 00:00	01/16/13 16:41
92145197002	**FD-03-01**	Water	01/16/13 00:00	01/16/13 16:41
92145197003	**PW-149A-01**	Water	01/16/13 08:35	01/16/13 16:41
92145197004	**PW-149B-01**	Water	01/16/13 08:40	01/16/13 16:41
92145197005	**PW-103A-01**	Water	01/16/13 09:35	01/16/13 16:41
92145197006	**PW-103B-01**	Water	01/16/13 09:40	01/16/13 16:41
92145197007	**PW-157A-01**	Water	01/16/13 10:20	01/16/13 16:41
92145197008	**PW-157B-01**	Water	01/16/13 10:25	01/16/13 16:41
92145197009	**PW-101A-01**	Water	01/16/13 11:35	01/16/13 16:41
92145197010	**PW-101B-01**	Water	01/16/13 11:40	01/16/13 16:41
92145197011	**PW-058A-01**	Water	01/16/13 13:40	01/16/13 16:41
92145197012	**PW-058B-01**	Water	01/16/13 13:45	01/16/13 16:41
92145197013	**PW-060A-01**	Water	01/16/13 14:35	01/16/13 16:41
92145197014	**PW-060B-01**	Water	01/16/13 14:30	01/16/13 16:41
92145197015	**PW-039A-01**	Water	01/16/13 15:50	01/16/13 16:41
92145197016	**PW-039B-01**	Water	01/16/13 15:55	01/16/13 16:41

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92145197001	TB-02-01	EPA 8260	KJM	12	PASI-C
92145197002	FD-03-01	EPA 8260	KJM	12	PASI-C
92145197003	PW-149A-01	EPA 8260	KJM	12	PASI-C
92145197004	PW-149B-01	EPA 8260	KJM	12	PASI-C
92145197005	PW-103A-01	EPA 8260	KJM	12	PASI-C
92145197006	PW-103B-01	EPA 8260	KJM	12	PASI-C
92145197007	PW-157A-01	EPA 8260	KJM	12	PASI-C
92145197008	PW-157B-01	EPA 8260	KJM	12	PASI-C
92145197009	PW-101A-01	EPA 8260	KJM	12	PASI-C
92145197010	PW-101B-01	EPA 8260	KJM	12	PASI-C
92145197011	PW-058A-01	EPA 8260	KJM	12	PASI-C
92145197012	PW-058B-01	EPA 8260	KJM	12	PASI-C
92145197013	PW-060A-01	EPA 8260	KJM	12	PASI-C
92145197014	PW-060B-01	EPA 8260	KJM	12	PASI-C
92145197015	PW-039A-01	EPA 8260	KJM	12	PASI-C
92145197016	PW-039B-01	EPA 8260	KJM	12	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC, Asheville
Date: January 23, 2013

General Information:
16 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: TB-02-01 **Lab ID: 92145197001** Collected: 01/16/13 00:00 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 16:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 16:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 16:50	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 16:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 16:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 16:50	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 16:50	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 16:50	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/21/13 16:50	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		01/21/13 16:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		01/21/13 16:50	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 16:50	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: FD-03-01 **Lab ID: 92145197002** Collected: 01/16/13 00:00 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 17:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 17:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 17:21	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 17:21	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 17:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 17:21	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 17:21	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 17:21	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/21/13 17:21	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		01/21/13 17:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		01/21/13 17:21	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		01/21/13 17:21	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-149A-01 **Lab ID: 92145197003** Collected: 01/16/13 08:35 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 17:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 17:37	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 17:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 17:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 17:37	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 17:37	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 17:37	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/21/13 17:37	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		01/21/13 17:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		01/21/13 17:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 17:37	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-149B-01 **Lab ID: 92145197004** Collected: 01/16/13 08:40 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 17:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 17:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 17:53	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 17:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 17:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 17:53	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 17:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 17:53	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		01/21/13 17:53	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		01/21/13 17:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		01/21/13 17:53	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/21/13 17:53	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-103A-01 **Lab ID: 92145197005** Collected: 01/16/13 09:35 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 12:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 12:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 12:52	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 12:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 12:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 12:52	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 12:52	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 12:52	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		01/21/13 12:52	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/21/13 12:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		01/21/13 12:52	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 12:52	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-103B-01 **Lab ID: 92145197006** Collected: 01/16/13 09:40 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 18:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 18:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 18:09	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 18:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 18:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 18:09	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 18:09	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 18:09	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/21/13 18:09	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		01/21/13 18:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/21/13 18:09	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 18:09	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-157A-01 **Lab ID: 92145197007** Collected: 01/16/13 10:20 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 18:25	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 18:25	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 18:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 18:25	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 18:25	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 18:25	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/21/13 18:25	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		01/21/13 18:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		01/21/13 18:25	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		01/21/13 18:25	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-157B-01 **Lab ID: 92145197008** Collected: 01/16/13 10:25 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 18:41	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 18:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 18:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 18:41	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 18:41	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 18:41	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		01/21/13 18:41	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		01/21/13 18:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		01/21/13 18:41	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		01/21/13 18:41	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-101A-01 **Lab ID: 92145197009** Collected: 01/16/13 11:35 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 18:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 18:56	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 18:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 18:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 18:56	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 18:56	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 18:56	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/21/13 18:56	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		01/21/13 18:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		01/21/13 18:56	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		01/21/13 18:56	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-101B-01 **Lab ID: 92145197010** Collected: 01/16/13 11:40 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 19:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 19:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 19:12	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 19:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 19:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 19:12	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 19:12	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 19:12	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/21/13 19:12	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		01/21/13 19:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/21/13 19:12	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 19:12	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-058A-01 **Lab ID: 92145197011** Collected: 01/16/13 13:40 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 19:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 19:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 19:28	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 19:28	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 19:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 19:28	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 19:28	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 19:28	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/21/13 19:28	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/21/13 19:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/21/13 19:28	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/21/13 19:28	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-058B-01 **Lab ID: 92145197012** Collected: 01/16/13 13:45 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 19:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 19:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 19:44	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 19:44	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 19:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 19:44	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 19:44	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 19:44	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		01/21/13 19:44	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		01/21/13 19:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/21/13 19:44	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 19:44	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-060A-01 **Lab ID: 92145197013** Collected: 01/16/13 14:35 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 20:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 20:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 20:00	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 20:00	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 20:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 20:00	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 20:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 20:00	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/21/13 20:00	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		01/21/13 20:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/21/13 20:00	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/21/13 20:00	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-060B-01 **Lab ID: 92145197014** Collected: 01/16/13 14:30 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 20:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 20:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 20:16	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 20:16	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 20:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 20:16	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 20:16	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 20:16	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		01/21/13 20:16	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/21/13 20:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		01/21/13 20:16	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 20:16	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-039A-01 **Lab ID: 92145197015** Collected: 01/16/13 15:50 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 20:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 20:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 20:32	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 20:32	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 20:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 20:32	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 20:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 20:32	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/21/13 20:32	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		01/21/13 20:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/21/13 20:32	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 20:32	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Sample: PW-039B-01 **Lab ID: 92145197016** Collected: 01/16/13 15:55 Received: 01/16/13 16:41 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 20:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 20:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 20:48	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 20:48	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 20:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 20:48	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 20:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 20:48	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/21/13 20:48	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		01/21/13 20:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		01/21/13 20:48	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 20:48	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

QC Batch: MSV/21767 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92145197001, 92145197002, 92145197003, 92145197004, 92145197005, 92145197006, 92145197007, 92145197008, 92145197009, 92145197010, 92145197011, 92145197012, 92145197013, 92145197014, 92145197015, 92145197016

METHOD BLANK: 908510 — Matrix: Water
Associated Lab Samples: 92145197001, 92145197002, 92145197003, 92145197004, 92145197005, 92145197006, 92145197007, 92145197008, 92145197009, 92145197010, 92145197011, 92145197012, 92145197013, 92145197014, 92145197015, 92145197016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/21/13 12:20	
1,1-Dichloroethene	ug/L	ND	1.0	01/21/13 12:20	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/21/13 12:20	
Tetrachloroethene	ug/L	ND	1.0	01/21/13 12:20	
Toluene	ug/L	ND	1.0	01/21/13 12:20	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/21/13 12:20	
Trichloroethene	ug/L	ND	1.0	01/21/13 12:20	
Vinyl chloride	ug/L	ND	1.0	01/21/13 12:20	
1,2-Dichloroethane-d4 (S)	%	98	70-130	01/21/13 12:20	
4-Bromofluorobenzene (S)	%	96	70-130	01/21/13 12:20	
Dibromofluoromethane (S)	%	104	70-130	01/21/13 12:20	
Toluene-d8 (S)	%	98	70-130	01/21/13 12:20	

LABORATORY CONTROL SAMPLE: 908511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethene	ug/L	50	43.2	86	70-132	
cis-1,2-Dichloroethene	ug/L	50	42.6	85	70-131	
Tetrachloroethene	ug/L	50	48.1	96	70-130	
Toluene	ug/L	50	45.4	91	70-130	
trans-1,2-Dichloroethene	ug/L	50	41.2	82	70-130	
Trichloroethene	ug/L	50	45.1	90	70-130	
Vinyl chloride	ug/L	50	37.0	74	69-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 908512 908513

Parameter	Units	92145197005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	53.1	53.7	106	107	70-166	1	30	
Toluene	ug/L	ND	50	50	51.7	52.1	103	104	70-155	1	30	
Trichloroethene	ug/L	ND	50	50	51.0	51.3	102	103	69-151	0	30	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 908512 908513

Parameter	Units	92145197005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						104	103	70-130			
4-Bromofluorobenzene (S)	%						99	100	70-130			
Dibromofluoromethane (S)	%						103	105	70-130			
Toluene-d8 (S)	%						98	98	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145197

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92145197001	**TB-02-01**	EPA 8260	MSV/21767		
92145197002	**FD-03-01**	EPA 8260	MSV/21767		
92145197003	**PW-149A-01**	EPA 8260	MSV/21767		
92145197004	**PW-149B-01**	EPA 8260	MSV/21767		
92145197005	**PW-103A-01**	EPA 8260	MSV/21767		
92145197006	**PW-103B-01**	EPA 8260	MSV/21767		
92145197007	**PW-157A-01**	EPA 8260	MSV/21767		
92145197008	**PW-157B-01**	EPA 8260	MSV/21767		
92145197009	**PW-101A-01**	EPA 8260	MSV/21767		
92145197010	**PW-101B-01**	EPA 8260	MSV/21767		
92145197011	**PW-058A-01**	EPA 8260	MSV/21767		
92145197012	**PW-058B-01**	EPA 8260	MSV/21767		
92145197013	**PW-060A-01**	EPA 8260	MSV/21767		
92145197014	**PW-060B-01**	EPA 8260	MSV/21767		
92145197015	**PW-039A-01**	EPA 8260	MSV/21767		
92145197016	**PW-039B-01**	EPA 8260	MSV/21767		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

1671374

Section A Required Client Information:

Company: AMEC
Address: 1308 Patton Ave
Asheville NC 28806
Email To: susan.kelly@amec.com
Phone: 828 253 8130 Fax:
Requested Due Date/TAT: Std

Section B Required Project Information:

Report To: Susan Kelly
Copy To:
Purchase Order No.: C012101936
Project Name: CTS of Asheville
Project Number: 6252120006

Section C Invoice Information:

Attention: Susan Kelly
Company Name: AMEC
Address: 1308 Patton Ave, Asheville
Pace Quote Reference:
Pace Project Manager: Kevin Godwin
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N): Y/N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260 VOCs*	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92141981
1	PW-014B-01	WT	G	N/A	N/A	1/15/13	10:00		3				X					X		013
2	PW-143A-01	WT	G	↓	↓	1/15/13	14:00		3				X					X		014
3	PW-143B-01	WT	G	↓	↓	1/15/13	14:05		3				X					X		015
4	PW-063A-01	WT	G	↓	↓	1/15/13	14:35		3				X					X		016
5	PW-063B-01	WT	G	↓	↓	1/15/13	14:40		3				X					X		017
6	PW-133-01	WT	G	N/A	N/A	1/15/13	15:55		3				X					X		018
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
* Site-specific compound list	Susan Kelly / AMEC	1/15/13	16:57	[signature]	1/15/13	16:57

SAMPLE CONDITIONS	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	0.8	Y	[signature] 1/15/13	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SUSAN KELLY

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 1/15/13

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

RECEIVED
SEK 2/5/13
(full data package)

Total Pages: 152

Pace Analytical™
www.pacelabs.com

AMEC

Client Ref.: CTS of Asheville 6252120006

Pace-Charlotte Project No. 92145319

Pace Analytical Services, Inc.-Charlotte
9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 23, 2013

Ms. Susan Kelly
AMEC- Asheville
1308 Patton Avenue
Asheville, NC 28806

RE: Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Dear Ms. Kelly:
Enclosed are the analytical results for sample(s) received by the laboratory on January 17, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92145319001	**TB-03-01**	Water	01/17/13 00:00	01/17/13 13:03
92145319002	**PW-146A-01**	Water	01/17/13 09:45	01/17/13 13:03
92145319003	**PW-146B-01**	Water	01/17/13 09:50	01/17/13 13:03
92145319004	**PW-046-01**	Water	01/17/13 10:25	01/17/13 13:03
92145319005	**PW-047A-01**	Water	01/17/13 11:20	01/17/13 13:03
92145319006	**PW-047B-01**	Water	01/17/13 11:25	01/17/13 13:03

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92145319001	**TB-03-01**	EPA 8260	KJM	12	PASI-C
92145319002	**PW-146A-01**	EPA 8260	KJM	12	PASI-C
92145319003	**PW-146B-01**	EPA 8260	KJM	12	PASI-C
92145319004	**PW-046-01**	EPA 8260	KJM	12	PASI-C
92145319005	**PW-047A-01**	EPA 8260	KJM	12	PASI-C
92145319006	**PW-047B-01**	EPA 8260	KJM	12	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC, Asheville
Date: January 23, 2013

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Sample: TB-03-01 **Lab ID: 92145319001** Collected: 01/17/13 00:00 Received: 01/17/13 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 17:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 17:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 17:06	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 17:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 17:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 17:06	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 17:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 17:06	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/21/13 17:06	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		01/21/13 17:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		01/21/13 17:06	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 17:06	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Sample: PW-146A-01 **Lab ID: 92145319002** Collected: 01/17/13 09:45 Received: 01/17/13 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 13:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 13:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 13:08	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 13:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 13:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 13:08	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 13:08	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 13:08	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/21/13 13:08	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		01/21/13 13:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		01/21/13 13:08	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 13:08	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Sample: PW-146B-01 **Lab ID: 92145319003** Collected: 01/17/13 09:50 Received: 01/17/13 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 21:04	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 21:04	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 21:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 21:04	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 21:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 21:04	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/21/13 21:04	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		01/21/13 21:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		01/21/13 21:04	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/21/13 21:04	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Sample: PW-046-01 **Lab ID: 92145319004** Collected: 01/17/13 10:25 Received: 01/17/13 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 21:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 21:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 21:20	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 21:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 21:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 21:20	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 21:20	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 21:20	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/21/13 21:20	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/21/13 21:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		01/21/13 21:20	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		01/21/13 21:20	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Sample: PW-047A-01 **Lab ID: 92145319005** Collected: 01/17/13 11:20 Received: 01/17/13 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 21:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 21:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 21:35	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 21:35	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 21:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 21:35	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 21:35	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 21:35	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/21/13 21:35	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		01/21/13 21:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		01/21/13 21:35	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/21/13 21:35	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Sample: PW-047B-01 **Lab ID: 92145319006** Collected: 01/17/13 11:25 Received: 01/17/13 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/21/13 21:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/21/13 21:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/21/13 21:51	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/21/13 21:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/21/13 21:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/21/13 21:51	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/21/13 21:51	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/21/13 21:51	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/21/13 21:51	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/21/13 21:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/21/13 21:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/21/13 21:51	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

QC Batch: MSV/21768 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92145319001, 92145319002, 92145319003, 92145319004, 92145319005, 92145319006

METHOD BLANK: 908514 — Matrix: Water
Associated Lab Samples: 92145319001, 92145319002, 92145319003, 92145319004, 92145319005, 92145319006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/21/13 12:36	
1,1-Dichloroethene	ug/L	ND	1.0	01/21/13 12:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/21/13 12:36	
Tetrachloroethene	ug/L	ND	1.0	01/21/13 12:36	
Toluene	ug/L	ND	1.0	01/21/13 12:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/21/13 12:36	
Trichloroethene	ug/L	ND	1.0	01/21/13 12:36	
Vinyl chloride	ug/L	ND	1.0	01/21/13 12:36	
1,2-Dichloroethane-d4 (S)	%	100	70-130	01/21/13 12:36	
4-Bromofluorobenzene (S)	%	102	70-130	01/21/13 12:36	
Dibromofluoromethane (S)	%	103	70-130	01/21/13 12:36	
Toluene-d8 (S)	%	98	70-130	01/21/13 12:36	

LABORATORY CONTROL SAMPLE: 908515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.9	92	70-130	
1,1-Dichloroethene	ug/L	50	42.5	85	70-132	
cis-1,2-Dichloroethene	ug/L	50	42.8	86	70-131	
Tetrachloroethene	ug/L	50	50.0	100	70-130	
Toluene	ug/L	50	46.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	41.8	84	70-130	
Trichloroethene	ug/L	50	46.3	93	70-130	
Vinyl chloride	ug/L	50	37.7	75	69-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 908516 908517

Parameter	Units	92145319002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	50.1	54.1	100	108	70-166	8	30	
Toluene	ug/L	ND	50	50	53.1	52.8	106	106	70-155	1	30	
Trichloroethene	ug/L	ND	50	50	53.8	54.1	108	108	69-151	1	30	
1,2-Dichloroethane-d4 (S)	%						103	101	70-130			
4-Bromofluorobenzene (S)	%						97	97	70-130			
Dibromofluoromethane (S)	%						101	102	70-130			
Toluene-d8 (S)	%						99	98	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CTS of Asheville 6252120006
Pace Project No.: 92145319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92145319001	**TB-03-01**	EPA 8260	MSV/21768		
92145319002	**PW-146A-01**	EPA 8260	MSV/21768		
92145319003	**PW-146B-01**	EPA 8260	MSV/21768		
92145319004	**PW-046-01**	EPA 8260	MSV/21768		
92145319005	**PW-047A-01**	EPA 8260	MSV/21768		
92145319006	**PW-047B-01**	EPA 8260	MSV/21768		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

1671371

Section A Required Client Information:

Company: AMEC
Address: 1308 Patton Ave Asheville NC 28806
Email To: susan.kelly@amec.com
Phone: 8282528130 Fax:
Requested Due Date/TAT: std

Section B Required Project Information:

Report To: Susan Kelly
Copy To:
Purchase Order No.: C012101936
Project Name: CTS of Asheville
Project Number: 625212 0006

Section C Invoice Information:

Attention: Susan Kelly
Company Name: AMEC
Address: 1308 Patton Ave, Asheville
Pace Quote Reference:
Pace Project Manager: Kevin Godwin
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260 VOCs*	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92145319
1	TB-03-01	WT		N/A	N/A	lab prep			2				X					X		001
2	PW-146A-01	WT	G	↓	↓	1/17/13	9:45		3				X					X		002
3	PW-146B-01	WT	G	↓	↓	1/17/13	9:50		3				X					X		003
4	PW-046-01	WT	G	↓	↓	1/17/13	10:25		3				X					X		004
5	PW-047A-01	WT	G	↓	↓	1/17/13	11:20		3				X					X		005
6	PW-047B-01	WT	G	N/A	N/A	1/17/13	11:25		3				X					X		006
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*site-specific compound list	Susan Kelly/AMEC	1/17/13	13:03	[signature]	1/17/13	13:03	3.0	Y	Y	~

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: SUSAN KELLY
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 1/17/13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

RECEIVED
SEK 2/5/13
(full data package)

Total Pages: 155

Pace Analytical™
www.pacelabs.com

AMEC

Client Ref.: CTS OF ASHEVILLE 6252120006

Pace-Charlotte Project No. 92145451

Pace Analytical Services, Inc.-Charlotte
9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 23, 2013

Ms. Susan Kelly
AMEC- Asheville
1308 Patton Avenue
Asheville, NC 28806

RE: Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Dear Ms. Kelly:
Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92145451001	**TB-04-01**	Water	01/18/13 00:00	01/18/13 16:58
92145451002	**PW-121A-01**	Water	01/18/13 15:25	01/18/13 16:58
92145451003	**PW-121B-01**	Water	01/18/13 15:30	01/18/13 16:58
92145451004	**PW-132-01**	Water	01/18/13 14:55	01/18/13 16:58
92145451005	**PW-136A-01**	Water	01/18/13 16:05	01/18/13 16:58
92145451006	**PW-136B-01**	Water	01/18/13 16:10	01/18/13 16:58

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92145451001	**TB-04-01**	EPA 8260	CAH	12	PASI-C
92145451002	**PW-121A-01**	EPA 8260	CAH	12	PASI-C
92145451003	**PW-121B-01**	EPA 8260	CAH	12	PASI-C
92145451004	**PW-132-01**	EPA 8260	CAH	12	PASI-C
92145451005	**PW-136A-01**	EPA 8260	CAH	12	PASI-C
92145451006	**PW-136B-01**	EPA 8260	CAH	12	PASI-C

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC, Asheville
Date: January 23, 2013

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Sample: TB-04-01 **Lab ID: 92145451001** Collected: 01/18/13 00:00 Received: 01/18/13 16:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/22/13 16:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/22/13 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/22/13 16:29	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/22/13 16:29	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/22/13 16:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/22/13 16:29	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/22/13 16:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/22/13 16:29	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		01/22/13 16:29	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/22/13 16:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		01/22/13 16:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/22/13 16:29	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Sample: PW-121A-01 **Lab ID: 92145451002** Collected: 01/18/13 15:25 Received: 01/18/13 16:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/22/13 17:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/22/13 17:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/22/13 17:06	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/22/13 17:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/22/13 17:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/22/13 17:06	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/22/13 17:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/22/13 17:06	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		01/22/13 17:06	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/22/13 17:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		01/22/13 17:06	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/22/13 17:06	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Sample: PW-121B-01 **Lab ID: 92145451003** Collected: 01/18/13 15:30 Received: 01/18/13 16:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/22/13 16:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/22/13 16:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/22/13 16:48	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/22/13 16:48	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/22/13 16:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/22/13 16:48	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/22/13 16:48	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/22/13 16:48	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		01/22/13 16:48	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/22/13 16:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		01/22/13 16:48	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/22/13 16:48	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Sample: PW-132-01 **Lab ID: 92145451004** Collected: 01/18/13 14:55 Received: 01/18/13 16:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/22/13 17:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/22/13 17:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/22/13 17:24	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/22/13 17:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/22/13 17:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/22/13 17:24	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/22/13 17:24	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/22/13 17:24	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		01/22/13 17:24	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/22/13 17:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		01/22/13 17:24	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		01/22/13 17:24	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Sample: PW-136A-01 **Lab ID: 92145451005** Collected: 01/18/13 16:05 Received: 01/18/13 16:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/22/13 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/22/13 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/22/13 17:43	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/22/13 17:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/22/13 17:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/22/13 17:43	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/22/13 17:43	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/22/13 17:43	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		01/22/13 17:43	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		01/22/13 17:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		01/22/13 17:43	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/22/13 17:43	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Sample: PW-136B-01 **Lab ID: 92145451006** Collected: 01/18/13 16:10 Received: 01/18/13 16:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		01/22/13 18:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		01/22/13 18:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		01/22/13 18:01	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		01/22/13 18:01	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		01/22/13 18:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		01/22/13 18:01	71-55-6	
Trichloroethene	ND	ug/L	1.0	0.47	1		01/22/13 18:01	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		01/22/13 18:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		01/22/13 18:01	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/22/13 18:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		01/22/13 18:01	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		01/22/13 18:01	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

QC Batch: MSV/21783 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92145451001, 92145451002, 92145451003, 92145451004, 92145451005, 92145451006

METHOD BLANK: 909091 — Matrix: Water
Associated Lab Samples: 92145451001, 92145451002, 92145451003, 92145451004, 92145451005, 92145451006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/22/13 15:52	
1,1-Dichloroethene	ug/L	ND	1.0	01/22/13 15:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/22/13 15:52	
Tetrachloroethene	ug/L	ND	1.0	01/22/13 15:52	
Toluene	ug/L	ND	1.0	01/22/13 15:52	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/22/13 15:52	
Trichloroethene	ug/L	ND	1.0	01/22/13 15:52	
Vinyl chloride	ug/L	ND	1.0	01/22/13 15:52	
1,2-Dichloroethane-d4 (S)	%	103	70-130	01/22/13 15:52	
4-Bromofluorobenzene (S)	%	88	70-130	01/22/13 15:52	
Dibromofluoromethane (S)	%	104	70-130	01/22/13 15:52	
Toluene-d8 (S)	%	100	70-130	01/22/13 15:52	

LABORATORY CONTROL SAMPLE: 909092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.8	108	70-130	
1,1-Dichloroethene	ug/L	50	49.7	99	70-132	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	70-131	
Tetrachloroethene	ug/L	50	53.7	107	70-130	
Toluene	ug/L	50	52.2	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.7	99	70-130	
Trichloroethene	ug/L	50	51.9	104	70-130	
Vinyl chloride	ug/L	50	52.0	104	69-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 909093 909094

Parameter	Units	92145451003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	43.0	50.7	86	101	70-166	16	30	
Toluene	ug/L	ND	50	50	42.6	51.2	85	102	70-155	18	30	
Trichloroethene	ug/L	ND	50	50	42.9	51.0	86	102	69-151	17	30	
1,2-Dichloroethane-d4 (S)	%						105	104	70-130			
4-Bromofluorobenzene (S)	%						89	90	70-130			
Dibromofluoromethane (S)	%						103	102	70-130			
Toluene-d8 (S)	%						97	97	70-130			

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CTS OF ASHEVILLE 6252120006
Pace Project No.: 92145451

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92145451001	**TB-04-01**	EPA 8260	MSV/21783		
92145451002	**PW-121A-01**	EPA 8260	MSV/21783		
92145451003	**PW-121B-01**	EPA 8260	MSV/21783		
92145451004	**PW-132-01**	EPA 8260	MSV/21783		
92145451005	**PW-136A-01**	EPA 8260	MSV/21783		
92145451006	**PW-136B-01**	EPA 8260	MSV/21783		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1671370

Section A Required Client Information:

Company: AMEC
Address: 1308 Patton Ave Asheville NC 28806
Email To: susan.kelly@amec.com
Phone: 828 252 8130 Fax:
Requested Due Date/TAT: Std.

Section B Required Project Information:

Report To: Susan Kelly
Copy To:
Purchase Order No.: C012101936
Project Name: CTS of Asheville
Project Number: 6252120006

Section C Invoice Information:

Attention: Susan Kelly
Company Name: AMEC
Address: 1308 Patton Ave, Asheville
Pace Quote Reference:
Pace Project Manager: Kevin Godwin
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260 VOCs*	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-04-01	WT	G	N/A	N/A	lab prep			2				X						X		001
2	PW-121A-01	WT	G			1/18/13	15:25		3				X						X		002
3	PW-121B-01	WT	G			1/18/13	15:30		3				X						X		003
4	PW-132-01	WT	G			1/18/13	14:55		3				X						X		004
5	PW-136A-01	WT	G			1/18/13	16:05		3				X						X		005
6	PW-136B-01	WT	G	N/A	N/A	1/18/13	16:10		3				X						X		006
7																					
8																					
9																					
10																					
11																					
12																					

Requested Analysis Filtered (Y/N): Y

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*site specific compound list	Susan Kelly / AMEC	1/18/13	16:58	Joseph Shaw	1/18/13	1658	3.0	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SUSAN KELLY

SIGNATURE of SAMPLER: Susan Kelly

DATE Signed (MM/DD/YY): 1/18/13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

APPENDIX D

DATA VALIDATION REPORT

DATA VALIDATION REPORT
January 2013 Water Supply Monitoring
CTS of Asheville, Inc. Superfund Site
Asheville, North Carolina

Introduction

Water supply samples were collected at the CTS of Asheville, Inc (Site) in Asheville, North Carolina in January 2013 and submitted for off-site laboratory analysis. Samples were analyzed by Pace Analytical Services, Inc. located in Charlotte, North Carolina. Results were reported in the following Sample Delivery Groups (SDGs): 92144981, 92145197, 92145319 and 92145451.

A listing of samples included in this Data Validation Report is presented in Table D.1. The project quality control limits are included in Table D.2. A summary of the analytical results is presented in Table D.3. Samples were analyzed by the following method:

- Volatile organic compounds (VOCs) by USEPA Method 8260 (Site-specific list)

Data validation was completed based on procedures in the USEPA Region 4 Data Validation Standard Operating Procedures (SOP) for Organic Analysis (USEPA, 2008), Method 8260, and the CTS of Asheville Quality Assurance Project Plan (QAPP; AMEC, 2012). The validation included the following evaluations:

- Lab report narrative
- Sample collection and chain of custody
- Data package completeness
- Holding times
- Instrument tuning
- Initial and continuing calibrations
- QC blanks
- System monitoring compound recovery
- Laboratory control samples
- Matrix spike/matrix spike duplicates
- Field duplicates
- Internal standard response and retention time
- Data transcription
- Raw data and calculation checks
- Electronic data reporting
- Data qualification

The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit
J = concentration is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

Data Validation Results

No quality control issues were identified during the data validation. Results are interpreted to be usable as reported by the laboratory.

A subset of project USEPA 8260 compounds (1,1,1-trichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene, toluene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride) was reported in the data set.

Reference:

AMEC, 2012. "Quality Assurance Project Plan for Water Supply Monitoring"; February 24, 2012.

USEPA Region 4, 2008. "Data Validation Standard Operating Procedures for Organic Analysis" Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Revision 3.1.

Data Validator: Mike Washburn
Date: 2/12/2013

Reviewed by Chris Ricardi, NRCC-EAC
Date: 2/28/2013

Chris Ricardi

TABLE D.1
Data Validation Report: Sample Summary (January 2013)
CTS of Asheville, Inc. Superfund Site
Asheville, North Carolina
AMEC Project 6252-12-0006

SDG	Sample ID	Sample Date	EPA 8260
92144981	FD-01-01	1/14/2013	8
92144981	FD-02-01	1/15/2013	8
92144981	PW-014A-01	1/15/2013	8
92144981	PW-014B-01	1/15/2013	8
92144981	PW-026A-01	1/15/2013	8
92144981	PW-026B-01	1/15/2013	8
92144981	PW-063A-01	1/15/2013	8
92144981	PW-063B-01	1/15/2013	8
92144981	PW-091A-01	1/14/2013	8
92144981	PW-091B-01	1/14/2013	8
92144981	PW-133-01	1/15/2013	8
92144981	PW-143A-01	1/15/2013	8
92144981	PW-143B-01	1/15/2013	8
92144981	PW-151A-01	1/14/2013	8
92144981	PW-151B-01	1/14/2013	8
92144981	PW-156A-01	1/15/2013	8
92144981	PW-156B-01	1/15/2013	8
92144981	TB-01-01	1/14/2013	8
92145197	FD-03-01	1/16/2013	8
92145197	PW-039A-01	1/16/2013	8
92145197	PW-039B-01	1/16/2013	8
92145197	PW-058A-01	1/16/2013	8
92145197	PW-058B-01	1/16/2013	8
92145197	PW-060A-01	1/16/2013	8
92145197	PW-060B-01	1/16/2013	8
92145197	PW-101A-01	1/16/2013	8
92145197	PW-101B-01	1/16/2013	8
92145197	PW-103A-01	1/16/2013	8
92145197	PW-103B-01	1/16/2013	8
92145197	PW-149A-01	1/16/2013	8
92145197	PW-149B-01	1/16/2013	8
92145197	PW-157A-01	1/16/2013	8
92145197	PW-157B-01	1/16/2013	8
92145197	TB-02-01	1/16/2013	8
92145319	PW-046-01	1/17/2013	8
92145319	PW-047A-01	1/17/2013	8
92145319	PW-047B-01	1/17/2013	8
92145319	PW-146A-01	1/17/2013	8
92145319	PW-146B-01	1/17/2013	8
92145319	TB-03-01	1/17/2013	8
92145451	PW-121A-01	1/18/2013	8
92145451	PW-121B-01	1/18/2013	8
92145451	PW-132-01	1/18/2013	8
92145451	PW-136A-01	1/18/2013	8
92145451	PW-136B-01	1/18/2013	8
92145451	TB-04-01	1/18/2013	8

Note:
1. Number listed under method indicates the number of target analytes reported.

Prepared By: BCG 2/8/13
Checked By: MJW 2/12/13

TABLE D.2
Data Validation Report: Quality Control Limits
CTS of Asheville, Inc. Superfund Site
Asheville, North Carolina
AMEC Project 6252-12-0006

Parameter	QC Test	%R	RPD
VOC	Surrogate	70-130	
	LCS/LCSD	70-130	30
	MS/MSD	70-130	30
	Field Duplicate		30

Notes:
LCS = laboratory control sample
LCSD = laboratory control sample duplicate
MS = matrix spike
MSD = matrix spike duplicate
%R = percent recovery
RPD = relative percent difference

TABLE D.3
Data Validation Report: Final Results Summary (January 2013)
CTS of Asheville, Inc Superfund Site
Asheville, North, Carolina
AMEC Project 6252-12-0006

		Location	MGPW014		MGPW014		MGPW026		MGPW026		MGPW039		MGPW039	
		Date Sampled	1/15/13		1/15/13		1/15/13		1/15/13		1/16/13		1/16/13	
		COC Sample	PW-014A-01		PW-014B-01		PW-026A-01		PW-026B-01		PW-039A-01		PW-039B-01	
Method	**Parameter Name**	**Units**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
EPA 8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Tetrachloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Toluene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Trichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Vinyl chloride	UG/L	1	U	1	U	1	U	1	U	1	U	1	U

Note:
U = not detected above the laboratory reporting limit.

TABLE D.3
Data Validation Report: Final Results Summary (January 2013)
CTS of Asheville, Inc Superfund Site
Asheville, North, Carolina
AMEC Project 6252-12-0006

		Location	MGPW046		MGPW047		MGPW047		MGPW058		MGPW058		MGPW060	
		Date Sampled	1/17/13		1/17/13		1/17/13		1/16/13		1/16/13		1/16/13	
		COC Sample	PW-046-01		PW-047A-01		PW-047B-01		PW-058A-01		PW-058B-01		PW-060B-01	
Method	**Parameter Name**	**Units**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
EPA 8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Tetrachloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Toluene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Trichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Vinyl chloride	UG/L	1	U	1	U	1	U	1	U	1	U	1	U

Note:
U = not detected above the laboratory reporting limit.

TABLE D.3
Data Validation Report: Final Results Summary (January 2013)
CTS of Asheville, Inc Superfund Site
Asheville, North, Carolina
AMEC Project 6252-12-0006

		Location	MGPW060		MGPW063		MGPW063		MGPW063		MGPW091		MGPW091	
		Date Sampled	1/16/13		1/15/13		1/15/13		1/15/13		1/14/13		1/14/13	
		COC Sample	PW-060A-01		PW-063A-01		FD-02-01		PW-063B-01		PW-091A-01		PW-091B-01	
Method	**Parameter Name**	**Units**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
EPA 8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Tetrachloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Toluene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Trichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Vinyl chloride	UG/L	1	U	1	U	1	U	1	U	1	U	1	U

Note:
U = not detected above the laboratory reporting limit.

TABLE D.3
Data Validation Report: Final Results Summary (January 2013)
CTS of Asheville, Inc Superfund Site
Asheville, North, Carolina
AMEC Project 6252-12-0006

		Location	MGPW101		MGPW101		MGPW101		MGPW103		MGPW103		MGPW121	
		Date Sampled	1/16/13		1/16/13		1/16/13		1/16/13		1/16/13		1/18/13	
		COC Sample	FD-03-01		PW-101A-01		PW-101B-01		PW-103A-01		PW-103B-01		PW-121A-01	
Method	**Parameter Name**	**Units**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
EPA 8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Tetrachloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Toluene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Trichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Vinyl chloride	UG/L	1	U	1	U	1	U	1	U	1	U	1	U

Note:
U = not detected above the laboratory reporting limit.

TABLE D.3
Data Validation Report: Final Results Summary (January 2013)
CTS of Asheville, Inc Superfund Site
Asheville, North, Carolina
AMEC Project 6252-12-0006

		Location	MGPW121		MGPW132		MGPW133		MGPW136		MGPW136		MGPW143	
		Date Sampled	1/18/13		1/18/13		1/15/13		1/18/13		1/18/13		1/15/13	
		COC Sample	PW-121B-01		PW-132-01		PW-133-01		PW-136A-01		PW-136B-01		PW-143A-01	
Method	**Parameter Name**	**Units**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
EPA 8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Tetrachloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Toluene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Trichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Vinyl chloride	UG/L	1	U	1	U	1	U	1	U	1	U	1	U

Note:
U = not detected above the laboratory reporting limit.

TABLE D.3
Data Validation Report: Final Results Summary (January 2013)
CTS of Asheville, Inc Superfund Site
Asheville, North, Carolina
AMEC Project 6252-12-0006

		Location	MGPW143		MGPW146		MGPW146		MGPW149		MGPW149		MGPW151	
		Date Sampled	1/15/13		1/17/13		1/17/13		1/16/13		1/16/13		1/14/13	
		COC Sample	PW-143B-01		PW-146A-01		PW-146B-01		PW-149A-01		PW-149B-01		FD-01-01	
Method	**Parameter Name**	**Units**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
EPA 8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Tetrachloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Toluene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Trichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Vinyl chloride	UG/L	1	U	1	U	1	U	1	U	1	U	1	U

Note:
U = not detected above the laboratory reporting limit.

TABLE D.3
Data Validation Report: Final Results Summary (January 2013)
CTS of Asheville, Inc Superfund Site
Asheville, North, Carolina
AMEC Project 6252-12-0006

		Location	MGPW151		MGPW151		MGPW156		MGPW156		MGPW157		MGPW157	
		Date Sampled	1/14/13		1/14/13		1/15/13		1/15/13		1/16/13		1/16/13	
		COC Sample	PW-151A-01		PW-151B-01		PW-156A-01		PW-156B-01		PW-157A-01		PW-157B-01	
Method	**Parameter Name**	**Units**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
EPA 8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Tetrachloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Toluene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Trichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
EPA 8260	Vinyl chloride	UG/L	1	U	1	U	1	U	1	U	1	U	1	U

Note:
U = not detected above the laboratory reporting limit.

TABLE D.3
Data Validation Report: Final Results Summary (January 2013)
CTS of Asheville, Inc Superfund Site
Asheville, North, Carolina
AMEC Project 6252-12-0006

		Location	QC		QC		QC		QC	
		Date Sampled	1/14/13		1/16/13		1/17/13		1/18/13	
		COC Sample	TB-01-01		TB-02-01		TB-03-01		TB-04-01	
Method	**Parameter Name**	**Units**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**	**Result**	**Qual**
EPA 8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U
EPA 8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U
EPA 8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U
EPA 8260	Tetrachloroethene	UG/L	1	U	1	U	1	U	1	U
EPA 8260	Toluene	UG/L	1	U	1	U	1	U	1	U
EPA 8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U
EPA 8260	Trichloroethene	UG/L	1	U	1	U	1	U	1	U
EPA 8260	Vinyl chloride	UG/L	1	U	1	U	1	U	1	U

Note:
U = not detected above the laboratory reporting limit.

Prepared By: BCG 2/11/13
Checked By: MJW 2/12/13