Environmental Compliance and Remediation

Babb & Associates, P.A.

December 29, 2013

Mr. Ervin Lane, Hydrogeologist
Field Operations Branch
NC Solid Waste Section
Mail Service Center 1646
Raleigh, North Carolina 27699-1646

Re: 2013 Second Semi-Annual Water Quality Monitoring Results
Westside C&D Facility – Permit No. 98-09
Wilson, North Carolina

Dear Ervin:

Babb & Associates, P.A. has completed the 2013 second semi-annual sampling event at the Westside C&D facility in Wilson County, North Carolina. On November 20-21, 2013, four groundwater monitoring wells were sampled and analyzed for volatile organics by EPA Method 8260 and inorganic compounds by EPA Method 6010B. A site map that identifies sample locations and provides the potentiometric surface of the shallow groundwater is attached as Figure 1.

One volatile organic compound was detected above the laboratory method detection limits during this monitoring event. The compound acetone was detected in the sample collected from GMW-1 (background monitoring well) at a concentration of 8.90 ug/l. The compound acetone is considered a laboratory artifact as it was also reported above the laboratory detection limit in the trip blank. No other volatile organic compounds were reported above the laboratory detection limits in any of the four monitoring wells.

Inorganic compounds were also detected in all four groundwater monitoring wells above the laboratory method detection limits. None of the detected inorganic compounds exceeded the established 2L Groundwater Standards.

No other parameters were detected at concentrations equaling or exceeding the 2L Groundwater Standards in the groundwater samples collected. The groundwater laboratory analytical results and field parameters are summarized on Table 1. The

P.O. Box 37697
Raleigh, NC 27627
(919) 325-0696

laboratory analytical report, analytical data summary table, and site map (Figure 1) are provided with this report.

If there are any questions regarding the attached information, please contact the undersigned at (919) 325-0696.

Respectfully,

Babb & Associates, P.A.

Gary D. Babb, P.G.
President

Attachments

cc: Mr. Andy Davis, Director
Wilson County Solid Waste

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Babb & Associates, P.A.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Gary D. Babb, P.G. Phone: (919) 325-0696

E-mail: gdbabb@gmail.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Westside C&D Facility	4537 Landfill Road Wilson, NC	98-09	.0500	November 20-21, 2013

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☐ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☒ No. No groundwater or surface water standards were exceeded.
☐ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Gary D. Babb — Licensed Geologist — (919) 325-0696

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Gary D. Babb — December 29, 2013 — Affix NC Licensed/ Professional Geologist Seal

Signature — Date

Babb & Associates, P.A., P.O. Box 37697, Raleigh, NC 27627

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

Revised 6/2009

Babb & Associates, P.A.	TITLE: SITE MAP Westside C&D Landfill Wilson County Wilson, North Carolina	FIGURE NO: Figure 1	SCALE:	PROJECT NO:
		CHECKED BY:	DRAWN BY: G. Babb	DATE: 11/21/13

TABLE 1

November 2013 Groundwater Analytical Results
Westside CDLF Facility
Wilson County, North Carolina
Permit No. 98-09

Parameter	GMW-1	GMW-2	GMW-3	GMW-4	2L Standard
pH	7.3	5.6	4.3	8.0	6.5 - 8.5
Conductivity	226	88	95	20	
Temperature	13.8	12.8	13.2	13.7	
Inorganics (ug/l)					
Antimony	0.302J	0.0582J	0.0375J	0.0374J	NE
Arsenic	**4.69**	0.367J	0.420J	0.522J	10
Barium	**67.6**	**90.2**	**129**	**70.5**	700
Beryllium	0.457J	0.285J	**2.83**	0.124J	NE
Cadmium	0.422J	0.210J	0.629J	0.0152J	2
Chromium	**5.6**	0.413J	0.510J	0.810J	10
Cobalt	**4.07**	**60.5**	**18.8**	**1.24**	NE
Copper	**10.5**	0.507J	0.530J	0.523J	1000
Lead	0.979J	0.0394J	0.348J	0.312J	15
Nickel	**7.47**	**12.1**	**22.1**	**2.44**	100
Selenium	1.11J	1.37J	1.18J	0.405J	20
Silver	0.0786J	0.0349J	0.0237J	0.0266J	20
Thallium	0.0859J	0.138J	U	0.0216J	NE
Vanadium	**7.81**	0.113J	0.444J	0.953J	NE
Zinc	**34.8**	**24.3**	**65.7**	**8.28**	1000
8260 volatiles (ug/l)					
Acetone	**8.90**	2.1J	1.9J	1.9J	6000
Chloroform	BQL	0.046J	BQL	BQL	70
1,2-Dichloropropane	BQL	BQL	0.40J	BQL	0.6

Notes:
Samples collected on November 21, 2013
Inorganic results reported in parts per million
8260 volatile results reported in parts per billion
U - Undetected, below laboratory quanitation limits
Bold concentrations equal or exceed laboratory quantitation limits
Shaded concentrations equal or exceed established 2L Standards
J - Between MDL and RL

CompuChem

A Division Of

Liberty Analytical Corp.

12/9/2013

GARY BABB

BABB & ASSOCIATES, P.A.

3605 COUNTRY LOVE LANE

RALEIGH, NC 27606

Subject:

Report of Data - Project: WILSON C&D

WorkOrder: 1311086

Attn.: GARY BABB

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: BABB & ASSOCIATES, P.A. **Work:** 1311086

Project: WILSON C&D **Sdg:** 1311086

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1311086-01	9809-GMW1	Water	11/21/2013 08:13	11/22/2013 10:05
1311086-02	9809-GMW2	Water	11/21/2013 08:28	11/22/2013 10:05
1311086-03	9809-GMW3	Water	11/21/2013 08:37	11/22/2013 10:05
1311086-04	9809-GMW4	Water	11/21/2013 08:45	11/22/2013 10:05
1311086-05	9809-TB	Water	11/21/2013 00:00	11/22/2013 10:05

ANALYSES DATA PACKAGE COVER PAGE

Client: BABB & ASSOCIATES, P.A.

Project: WILSON C&D

Laboratory: COMPUCHEM

SDG: 1311086

Client Sample Id:	Analysis:	Lab Sample Id:
9809-GMW1	SW 8260B	1311086-01
9809-GMW1	EPA 6020A	1311086-01
9809-GMW2	SW 8260B	1311086-02
9809-GMW2	EPA 6020A	1311086-02
9809-GMW3	SW 8260B	1311086-03
9809-GMW3	EPA 6020A	1311086-03
9809-GMW4	SW 8260B	1311086-04
9809-GMW4	EPA 6020A	1311086-04
9809-TB	SW 8260B	1311086-05

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Chip Cray1

Date: 12/09/2013 Title: Database Administrator

Environmental Testing Laboratories

CompuChem

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Liberty Analytical Corp.

A. SDG Narrative

CompuChem
A Division of Liberty Analytical Corp
501 Madison Avenue
Cary, North Carolina 27513

SDG NARRATIVE
SDG # 1311086
Client: BABB & ASSOCIATES, P.A.
Project: WILSON
METHOD: 6020A

Unless otherwise noted on enclosed Laboratory Notices or Quality Assurance Notices, all quality control criteria were met in the analyses of these samples.

Release of the data contained in the hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the signature below.

Susan W Bass

Susan W. Bass
Senior Chemist
December 4, 2013

CompuChem
A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1311086
Client: BABB& ASSOCIATES, P.A.
Project: WILSON C&D
ANALYSIS: 8260B
PROTOCOL: SW-846

Unless otherwise noted on enclosed Laboratory Notices or Quality Assurance Notices, all quality control criteria were met in the analyses of these samples.

Release of the data contained in the hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the signature below.

Patricia A Murphy
Patricia A Murphy
Senior Scientist
December 4, 2013

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
DRO/ORO	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
√	Restek	clpest	0.32	0.5	30
√	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
RSK	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
GRO	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
√	Restek	RTX-5Sil MS	0.32	0.25	30
	HPLC Laboratory				
PAH	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
PAH	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
EXP	Restek	Pinnacle Cyano	4.6	5.0	25 cm
EXP	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 30

This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semivolatiles, pesticides, and Aroclors by the requested analytical methods. Please see the SDG Narrative(s) for the specific fraction(s) relative to this SDG.
Note: This table also contains HPLC columns.

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CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Revision 7 (01/12/2011)

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC/HPLC chemists. An Extracted Ion Current Profile (EICP) or a GC/HPLC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC/HPLC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak. The most common reasons for performing manual integrations/editing are: the compound was not found by the automatic integration routine, the compound was incorrectly integrated by the automatic integration routine, and the co-eluting compounds were incorrectly integrated by the automatic integration routine.

H - Denotes that the data reviewer, GC/MS operator, or GC/HPLC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate GC/MS library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

These codes will appear in the GC/MS and GC/HPLC raw data.

Revision 8 (01/29/2011)

DATA REPORTING QUALIFIERS

On the appropriate reporting form, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on the appropriate reporting form for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 μg/L, but a concentration of 3 μg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85%), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The <u>lower</u> of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the <u>lower</u> of the two values is reported and flagged with a P on the reporting form. When the RPD is equal to or less than 40%, our policy is to also report the <u>lower</u> of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the <u>higher</u> of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on the appropriate reporting form for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the appropriate reporting form for the more diluted sample, and **all** reported concentrations on that form are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate reporting forms are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single reporting form.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an “S” flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor. The “S” flag is not utilized for non CLP analyses.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

INORGANIC DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. The qualifiers used are:

U : This flag indicates the compound was analyzed for, not detected and is reported as less than the Method Detection Limit (MDL) (or as defined by the client). The Reporting Limit (RL), or Limit of Quantitation (LOQ), and the MDL will be adjusted to reflect any dilution or concentration of the sample and, for soils, the percent moisture.

J : This flag indicates the reported result is an estimated value. The flag is used when an analyte is detected and the result is less than the adjusted RL/LOQ but equal to or greater than the MDL.

Q : This flag denotes that one or more quality control criteria have failed (e.g., LCS recovery, Continuing Calibration Verification, CCV, and interference check standards for ICP-AES/ICP-MS) and reanalyses can't be performed. The Q flag is applied to all specific analyte(s) in all samples associated with the failed quality control criteria.

B : This flag is used when the analyte is found in the associated method or calibration blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

D: This flag is applied to an analyte when the reported result is based on a dilution.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

The extensions: D, S, SD, L, and A are added to the end of the Client ID and represent the following:

D – Matrix Duplicate
S – Matrix Spike
SD – Matrix Spike Duplicate
L – Serial Dilution
A – Post Digestion Spike

Revision 0 (11-09-2010)

Chain of Custody Records

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the Work Order/SDG.

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CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

27527
Page 1 of 1

Courier: FedEx
Airbill No. 8044 9750 5198
Sampling Complete? (Y) or N

Client/Reporting Information

Company Name: Babb & Associates, P.A.
Address: 3605 Country Cove lane
City: Raleigh State: NC Zip: 27606
Project Contact: Gary Babb
Phone #: (919) 325-0696
Sampler's Name: Jason Jomp

Project Information

Project Name: Wilson C&D
Sampling Location: Wilson
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	Appendix I 8260 VOCs	Appendix I Metals	pH / Sample Info (Lab Use) Metals
1311086-01	9809-GMW1	11/21	813	GW	4	X		X				X	X	<2
-02	9809-GMW2	↓	828	GW	4	X		X				X	X	<2
-03	9809-GMW3		837	GW	4	X		X				X	X	<2
-04	9809-GMW4	↓	845	GW	4	X		X				X	X	<2
-05	9809-TB				3							X	TB Vials have pea-size air bubbles 11/22/13	

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: Date/Time: 11/21/13 1248 Received by: Date/Time: 11/22/13 1005
Relinquished by: Date/Time: Received by: Date/Time:
Subcontact? Y or (N) If yes, where? Custody Seal(s) intact? Y or N On Ice? (Y) or N Cooler Temp: 0.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

TR GUN: SW0015

WORK ORDER

Printed: 11/22/2013 12:10:21PM

1311086

COMPUCHEM

Client:	**BABB & ASSOCIATES, P.A.**	**Project Manager:**	**Cathy Dover**
Project:	**WILSON C&D**	**Project Number:**	**WILSON C&D**
SDG:	**1311086** **CASE:**	**Status:**	**Received**

Report To:
BABB & ASSOCIATES, P.A.
GARY BABB
3605 COUNTRY LOVE LANE
RALEIGH, NC 27606
Phone: (919) 325-0696
Fax: -

Invoice To:
BABB & ASSOCIATES, P.A.
GARY BABB
3605 COUNTRY LOVE LANE
RALEIGH, NC 27606
Phone :(919) 325-0696
Fax: -

Date Due:	12/05/2013 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	11/22/2013 10:05
Logged In By:	Cathy Dover	Date Logged In:	11/22/2013 11:39

J & B Flags?: **YES**	TICS?: **NO**	Deliverable: **Level 0 Special Email Only**	EDD : **NC DENR + CUSTOM EXCEL + HITS SUMMARY**
Metals ND to? **MDL**	Spike Level: **FULL Spike**		

LCS/LCSD*VOA 25ML 8260B=NCAPPI.SUB*6020A METALS =Sb,As,Ba,Be,Cd,Cr,Co,Cu,Pb,Ni,Se,Ag,Tl,V & Zn* RUN PDF
REPORT UNDER CUSTOM RPT: CompuChem_Level_0.rpt.

Analysis	Due	TAT	Expires	Received	Comments
1311086-01 9809-GMW1 [Water] Sampled 11/21/2013 08:13 Eastern					
6020A ICP MS (UPDATE IV)	12/05/2013 16:00	13	05/20/2014 08:13	11/22/2013 10:05	SubList(NCDENR)=MTL - NCAPPI (11-22-13
VOA-8260B 25ML	12/05/2013 16:00	13	12/05/2013 08:13	11/22/2013 10:05	SubList(NCDENR)=VOA - NCAPPI (11-22-13
1311086-02 9809-GMW2 [Water] Sampled 11/21/2013 08:28 Eastern					
6020A ICP MS (UPDATE IV)	12/05/2013 16:00	13	05/20/2014 08:28	11/22/2013 10:05	SubList(NCDENR)=MTL - NCAPPI (11-22-13
VOA-8260B 25ML	12/05/2013 16:00	13	12/05/2013 08:28	11/22/2013 10:05	SubList(NCDENR)=VOA - NCAPPI (11-22-13
1311086-03 9809-GMW3 [Water] Sampled 11/21/2013 08:37 Eastern					
6020A ICP MS (UPDATE IV)	12/05/2013 16:00	13	05/20/2014 08:37	11/22/2013 10:05	SubList(NCDENR)=MTL - NCAPPI (11-22-13
VOA-8260B 25ML	12/05/2013 16:00	13	12/05/2013 08:37	11/22/2013 10:05	SubList(NCDENR)=VOA - NCAPPI (11-22-13
1311086-04 9809-GMW4 [Water] Sampled 11/21/2013 08:45 Eastern					
6020A ICP MS (UPDATE IV)	12/05/2013 16:00	13	05/20/2014 08:45	11/22/2013 10:05	SubList(NCDENR)=MTL - NCAPPI (11-22-13
VOA-8260B 25ML	12/05/2013 16:00	13	12/05/2013 08:45	11/22/2013 10:05	SubList(NCDENR)=VOA - NCAPPI (11-22-13
1311086-05 9809-TB [Water] Sampled 11/21/2013 00:00 Eastern					**TRIP BLANK**
VOA-8260B 25ML	12/05/2013 16:00	13	12/05/2013 00:00	11/22/2013 10:05	SubList(NCDENR)=VOA - NCAPPI (11-22-13

ANALYSIS DATA SHEET

9809-GMW1

Client: BABB & ASSOCIATES, P.A. SDG: 1311086 Project: WILSON C&D

Lab ID: 1311086-01 % Solid: Matrix: Water Sampled: 11/21/13 Received: 11/22/13

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7440-36-0	Antimony	0.302	0.0260	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:40
7440-38-2	Arsenic	4.69	0.140	1.00	1		EPA 6020A	3L03023	12/3/13 20:40
7440-39-3	Barium	67.6	0.100	10.0	1		EPA 6020A	3L03023	12/3/13 20:40
7440-41-7	Beryllium	0.457	0.0330	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:40
7440-43-9	Cadmium	0.422	0.0110	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:40
7440-47-3	Chromium	5.60	0.0680	2.00	1		EPA 6020A	3L03023	12/3/13 20:40
7440-48-4	Cobalt	4.07	0.00950	1.00	1		EPA 6020A	3L03023	12/3/13 20:40
7440-50-8	Copper	10.5	0.120	2.00	1		EPA 6020A	3L03023	12/3/13 20:40
7439-92-1	Lead	0.979	0.0210	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:40
7440-02-0	Nickel	7.47	0.00910	1.00	1		EPA 6020A	3L03023	12/3/13 20:40
7782-49-2	Selenium	1.11	0.0900	5.00	1	J	EPA 6020A	3L03023	12/3/13 20:40
7440-22-4	Silver	0.0786	0.00800	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:40
7440-28-0	Thallium	0.0859	0.0150	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:40
7440-62-2	Vanadium	7.81	0.0560	5.00	1		EPA 6020A	3L03023	12/3/13 20:40
7440-66-6	Zinc	34.8	0.120	2.00	1		EPA 6020A	3L03023	12/3/13 20:40

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SW 8260B

9809-GMW1

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0190.d Sampled: 11/21/13 08:13

Initial/Final: 25mL / 25mL Lab ID: 1311086-01 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 19:26

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
67-64-1	Acetone	8.9	0.44	2.5	
107-13-1	Acrylonitrile		0.36	5.0	*U*
71-43-2	Benzene		0.030	0.50	*U*
74-97-5	Bromochloromethane		0.040	0.50	*U*
75-27-4	Bromodichloromethane		0.030	0.50	*U*
75-25-2	Bromoform; Tribromomethane		0.030	0.50	*U*
75-15-0	Carbon disulfide		0.020	0.50	*U*
56-23-5	Carbon tetrachloride		0.030	0.50	*U*
108-90-7	Chlorobenzene		0.020	0.50	*U*
75-00-3	Chloroethane; Ethyl chloride		0.20	0.50	*U*
67-66-3	Chloroform; Trichloromethane		0.030	0.50	*U*
124-48-1	Dibromochloromethane; Chlorodibromomethane		0.040	0.50	*U*
96-12-8	1,2-Dibromo-3-chlorpropane; DBCP		0.25	0.50	*U*
106-93-4	1,2-Dibromoethane; Ethylene dibromide; EDB		0.040	0.50	*U*
95-50-1	o-Dichlorobenzene; 1,2-Dichlorobenzene		0.030	0.50	*U*
106-46-7	p-Dichlorobenzene; 1,4-Dichlorobenzene		0.030	0.50	*U*
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	*U*
75-34-3	1,1-Dichloroethane; Ethylidene chloride		0.020	0.50	*U*
107-06-2	1,2-Dichloroethane; Ethlyene dichloride		0.030	0.50	*U*
75-35-4	1,1-Dichloroethylene; 1-1-Dichloroethene; Vinylide		0.040	0.50	*U*
156-59-2	cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene		0.030	0.50	*U*
156-60-5	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethe		0.050	0.50	*U*
78-87-5	1,2-Dichlorpropane; Propylene dichloride		0.12	0.50	*U*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	*U*
100-41-4	Ethylbenzene		0.040	0.50	*U*
591-78-6	2-hexanone; Methyl butyl ketone		0.51	2.5	*U*
74-83-9	Methyl bromide; Bromomethane		0.11	0.50	*U*
74-87-3	Methyl chloride; Chloromethane		0.11	0.50	*U*
74-95-3	Methylene bromide Dibromomethane		0.030	0.50	*U*
75-09-2	Methylene chloride; Dichloromethane		0.020	0.50	*U*
78-93-3	Methyl ethyl ketone; MEK; 2-Butanone		0.28	2.5	*U*

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SW 8260B

9809-GMW1

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0190.d Sampled: 11/21/13 08:13

Initial/Final: 25mL / 25mL Lab ID: 1311086-01 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 19:26

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
74-88-4	Methyl iodide; Iodomethane		0.030	0.50	*U*
108-10-1	4-Methyl-2-pentanone; Methyl isobutyl isobutyl ket		0.42	2.5	*U*
100-42-5	Styrene		0.020	0.50	*U*
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	*U*
127-18-4	Tetrachloroethylene; Tetracholorethene; Perchloroe		0.060	0.50	*U*
108-88-3	Toluene		0.030	0.50	*U*
71-55-6	1,1,1-Trichloroethane; Methylchloroform		0.020	0.50	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50	*U*
79-01-6	Trichloroethylene; Trichlorethene		0.030	0.50	*U*
75-69-4	Trichlorofluoromethane; CFC-11		0.060	0.50	*U*
96-18-4	1,2,3-Trichloropropane		0.090	0.50	*U*
108-05-4	Vinyl acetate		0.060	0.50	*U*
75-01-4	Vinyl chloride		0.070	0.50	*U*
1330-20-7	Xylenes		0.030	0.50	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.580	112	65 - 150	
1,2-Dichloroethane-d4	5.000	5.412	108	59 - 150	
Toluene-d8	5.000	5.402	108	61 - 145	
Bromofluorobenzene	5.000	5.361	107	63 - 143	

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9809-GMW2

Client: BABB & ASSOCIATES, P.A. SDG: 1311086 Project: WILSON C&D

Lab ID: 1311086-02 % Solid: Matrix: Water Sampled: 11/21/13 Received: 11/22/13

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7440-36-0	Antimony	0.0582	0.0260	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-38-2	Arsenic	0.367	0.140	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-39-3	Barium	90.2	0.100	10.0	1		EPA 6020A	3L03023	12/3/13 20:43
7440-41-7	Beryllium	0.285	0.0330	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-43-9	Cadmium	0.210	0.0110	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-47-3	Chromium	0.413	0.0680	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-48-4	Cobalt	60.5	0.00950	1.00	1		EPA 6020A	3L03023	12/3/13 20:43
7440-50-8	Copper	0.507	0.120	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7439-92-1	Lead	0.0394	0.0210	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-02-0	Nickel	12.1	0.00910	1.00	1		EPA 6020A	3L03023	12/3/13 20:43
7782-49-2	Selenium	1.37	0.0900	5.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-22-4	Silver	0.0349	0.00800	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-28-0	Thallium	0.138	0.0150	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-62-2	Vanadium	0.113	0.0560	5.00	1	J	EPA 6020A	3L03023	12/3/13 20:43
7440-66-6	Zinc	24.3	0.120	2.00	1		EPA 6020A	3L03023	12/3/13 20:43

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ANALYSIS DATA SHEET

SW 8260B

9809-GMW2

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0290.d Sampled: 11/21/13 08:28

Initial/Final: 25mL / 25mL Lab ID: 1311086-02 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 19:56

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
67-64-1	Acetone	2.1	0.44	2.5	*J*
107-13-1	Acrylonitrile		0.36	5.0	*U*
71-43-2	Benzene		0.030	0.50	*U*
74-97-5	Bromochloromethane		0.040	0.50	*U*
75-27-4	Bromodichloromethane		0.030	0.50	*U*
75-25-2	Bromoform; Tribromomethane		0.030	0.50	*U*
75-15-0	Carbon disulfide		0.020	0.50	*U*
56-23-5	Carbon tetrachloride		0.030	0.50	*U*
108-90-7	Chlorobenzene		0.020	0.50	*U*
75-00-3	Chloroethane; Ethyl chloride		0.20	0.50	*U*
67-66-3	Chloroform; Trichloromethane	0.046	0.030	0.50	*J*
124-48-1	Dibromochloromethane; Chlorodibromomethane		0.040	0.50	*U*
96-12-8	1,2-Dibromo-3-chlorpropane; DBCP		0.25	0.50	*U*
106-93-4	1,2-Dibromoethane; Ethylene dibromide; EDB		0.040	0.50	*U*
95-50-1	o-Dichlorobenzene; 1,2-Dichlorobenzene		0.030	0.50	*U*
106-46-7	p-Dichlorobenzene; 1,4-Dichlorobenzene		0.030	0.50	*U*
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	*U*
75-34-3	1,1-Dichloroethane; Ethylidene chloride		0.020	0.50	*U*
107-06-2	1,2-Dichloroethane; Ethlyene dichloride		0.030	0.50	*U*
75-35-4	1,1-Dichloroethylene; 1-1-Dichloroethene; Vinylide		0.040	0.50	*U*
156-59-2	cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene		0.030	0.50	*U*
156-60-5	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethe		0.050	0.50	*U*
78-87-5	1,2-Dichlorpropane; Propylene dichloride		0.12	0.50	*U*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	*U*
100-41-4	Ethylbenzene		0.040	0.50	*U*
591-78-6	2-hexanone; Methyl butyl ketone		0.51	2.5	*U*
74-83-9	Methyl bromide; Bromomethane		0.11	0.50	*U*
74-87-3	Methyl chloride; Chloromethane		0.11	0.50	*U*
74-95-3	Methylene bromide Dibromomethane		0.030	0.50	*U*
75-09-2	Methylene chloride; Dichloromethane		0.020	0.50	*U*
78-93-3	Methyl ethyl ketone; MEK; 2-Butanone		0.28	2.5	*U*

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SW 8260B

9809-GMW2

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0290.d Sampled: 11/21/13 08:28

Initial/Final: 25mL / 25mL Lab ID: 1311086-02 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 19:56

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
74-88-4	Methyl iodide; Iodomethane		0.030	0.50	*U*
108-10-1	4-Methyl-2-pentanone; Methyl isobutyl isobutyl ket		0.42	2.5	*U*
100-42-5	Styrene		0.020	0.50	*U*
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	*U*
127-18-4	Tetrachloroethylene; Tetracholorethene; Perchloroe		0.060	0.50	*U*
108-88-3	Toluene		0.030	0.50	*U*
71-55-6	1,1,1-Trichloroethane; Methylchloroform		0.020	0.50	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50	*U*
79-01-6	Trichloroethylene; Trichlorethene		0.030	0.50	*U*
75-69-4	Trichlorofluoromethane; CFC-11		0.060	0.50	*U*
96-18-4	1,2,3-Trichloropropane		0.090	0.50	*U*
108-05-4	Vinyl acetate		0.060	0.50	*U*
75-01-4	Vinyl chloride		0.070	0.50	*U*
1330-20-7	Xylenes		0.030	0.50	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.753	115	65 - 150	
1,2-Dichloroethane-d4	5.000	5.675	114	59 - 150	
Toluene-d8	5.000	5.330	107	61 - 145	
Bromofluorobenzene	5.000	5.317	106	63 - 143	

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9809-GMW3

Client: BABB & ASSOCIATES, P.A. SDG: 1311086 Project: WILSON C&D

Lab ID: 1311086-03 % Solid: Matrix: Water Sampled: 11/21/13 Received: 11/22/13

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7440-36-0	Antimony	0.0375	0.0260	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:45
7440-38-2	Arsenic	0.420	0.140	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:45
7440-39-3	Barium	129	0.100	10.0	1		EPA 6020A	3L03023	12/3/13 20:45
7440-41-7	Beryllium	2.83	0.0330	1.00	1		EPA 6020A	3L03023	12/3/13 20:45
7440-43-9	Cadmium	0.629	0.0110	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:45
7440-47-3	Chromium	0.510	0.0680	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:45
7440-48-4	Cobalt	18.8	0.00950	1.00	1		EPA 6020A	3L03023	12/3/13 20:45
7440-50-8	Copper	0.530	0.120	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:45
7439-92-1	Lead	0.348	0.0210	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:45
7440-02-0	Nickel	22.1	0.00910	1.00	1		EPA 6020A	3L03023	12/3/13 20:45
7782-49-2	Selenium	1.18	0.0900	5.00	1	J	EPA 6020A	3L03023	12/3/13 20:45
7440-22-4	Silver	0.0237	0.00800	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:45
7440-28-0	Thallium		0.0150	1.00	1	U	EPA 6020A	3L03023	12/3/13 20:45
7440-62-2	Vanadium	0.444	0.0560	5.00	1	J	EPA 6020A	3L03023	12/3/13 20:45
7440-66-6	Zinc	65.7	0.120	2.00	1		EPA 6020A	3L03023	12/3/13 20:45

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ANALYSIS DATA SHEET

SW 8260B

9809-GMW3

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0390.d Sampled: 11/21/13 08:37

Initial/Final: 25mL / 25mL Lab ID: 1311086-03 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 20:26

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
67-64-1	Acetone	1.9	0.44	2.5	*J*
107-13-1	Acrylonitrile		0.36	5.0	*U*
71-43-2	Benzene		0.030	0.50	*U*
74-97-5	Bromochloromethane		0.040	0.50	*U*
75-27-4	Bromodichloromethane		0.030	0.50	*U*
75-25-2	Bromoform; Tribromomethane		0.030	0.50	*U*
75-15-0	Carbon disulfide		0.020	0.50	*U*
56-23-5	Carbon tetrachloride		0.030	0.50	*U*
108-90-7	Chlorobenzene		0.020	0.50	*U*
75-00-3	Chloroethane; Ethyl chloride		0.20	0.50	*U*
67-66-3	Chloroform; Trichloromethane		0.030	0.50	*U*
124-48-1	Dibromochloromethane; Chlorodibromomethane		0.040	0.50	*U*
96-12-8	1,2-Dibromo-3-chlorpropane; DBCP		0.25	0.50	*U*
106-93-4	1,2-Dibromoethane; Ethylene dibromide; EDB		0.040	0.50	*U*
95-50-1	o-Dichlorobenzene; 1,2-Dichlorobenzene		0.030	0.50	*U*
106-46-7	p-Dichlorobenzene; 1,4-Dichlorobenzene		0.030	0.50	*U*
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	*U*
75-34-3	1,1-Dichloroethane; Ethylidene chloride		0.020	0.50	*U*
107-06-2	1,2-Dichloroethane; Ethlyene dichloride		0.030	0.50	*U*
75-35-4	1,1-Dichloroethylene; 1-1-Dichloroethene; Vinylide		0.040	0.50	*U*
156-59-2	cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene		0.030	0.50	*U*
156-60-5	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethe		0.050	0.50	*U*
78-87-5	1,2-Dichlorpropane; Propylene dichloride	0.40	0.12	0.50	*J*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	*U*
100-41-4	Ethylbenzene		0.040	0.50	*U*
591-78-6	2-hexanone; Methyl butyl ketone		0.51	2.5	*U*
74-83-9	Methyl bromide; Bromomethane		0.11	0.50	*U*
74-87-3	Methyl chloride; Chloromethane		0.11	0.50	*U*
74-95-3	Methylene bromide Dibromomethane		0.030	0.50	*U*
75-09-2	Methylene chloride; Dichloromethane		0.020	0.50	*U*
78-93-3	Methyl ethyl ketone; MEK; 2-Butanone		0.28	2.5	*U*

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ANALYSIS DATA SHEET

SW 8260B

9809-GMW3

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0390.d Sampled: 11/21/13 08:37

Initial/Final: 25mL / 25mL Lab ID: 1311086-03 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 20:26

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
74-88-4	Methyl iodide; Iodomethane		0.030	0.50	*U*
108-10-1	4-Methyl-2-pentanone; Methyl isobutyl isobutyl ket		0.42	2.5	*U*
100-42-5	Styrene		0.020	0.50	*U*
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	*U*
127-18-4	Tetrachloroethylene; Tetracholorethene; Perchloroe		0.060	0.50	*U*
108-88-3	Toluene		0.030	0.50	*U*
71-55-6	1,1,1-Trichloroethane; Methylchloroform		0.020	0.50	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50	*U*
79-01-6	Trichloroethylene; Trichlorethene		0.030	0.50	*U*
75-69-4	Trichlorofluoromethane; CFC-11		0.060	0.50	*U*
96-18-4	1,2,3-Trichloropropane		0.090	0.50	*U*
108-05-4	Vinyl acetate		0.060	0.50	*U*
75-01-4	Vinyl chloride		0.070	0.50	*U*
1330-20-7	Xylenes		0.030	0.50	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.612	112	65 - 150	
1,2-Dichloroethane-d4	5.000	5.525	110	59 - 150	
Toluene-d8	5.000	5.262	105	61 - 145	
Bromofluorobenzene	5.000	5.242	105	63 - 143	

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9809-GMW4

Client: BABB & ASSOCIATES, P.A. SDG: 1311086 Project: WILSON C&D

Lab ID: 1311086-04 % Solid: Matrix: Water Sampled: 11/21/13 Received: 11/22/13

CAS NO.	Analyte	Conc. (ug/L)	MDL	RL	D.F.	Q	Method	Sequence	Analyzed
7440-36-0	Antimony	0.0374	0.0260	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-38-2	Arsenic	0.522	0.140	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-39-3	Barium	70.5	0.100	10.0	1		EPA 6020A	3L03023	12/3/13 20:47
7440-41-7	Beryllium	0.124	0.0330	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-43-9	Cadmium	0.0152	0.0110	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-47-3	Chromium	0.810	0.0680	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-48-4	Cobalt	1.24	0.00950	1.00	1		EPA 6020A	3L03023	12/3/13 20:47
7440-50-8	Copper	0.523	0.120	2.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7439-92-1	Lead	0.312	0.0210	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-02-0	Nickel	2.44	0.00910	1.00	1		EPA 6020A	3L03023	12/3/13 20:47
7782-49-2	Selenium	0.405	0.0900	5.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-22-4	Silver	0.0266	0.00800	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-28-0	Thallium	0.0216	0.0150	1.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-62-2	Vanadium	0.953	0.0560	5.00	1	J	EPA 6020A	3L03023	12/3/13 20:47
7440-66-6	Zinc	8.28	0.120	2.00	1		EPA 6020A	3L03023	12/3/13 20:47

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SW 8260B

9809-GMW4

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0490.d Sampled: 11/21/13 08:45

Initial/Final: 25mL / 25mL Lab ID: 1311086-04 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 20:56

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
67-64-1	Acetone	1.9	0.44	2.5	*J*
107-13-1	Acrylonitrile		0.36	5.0	*U*
71-43-2	Benzene		0.030	0.50	*U*
74-97-5	Bromochloromethane		0.040	0.50	*U*
75-27-4	Bromodichloromethane		0.030	0.50	*U*
75-25-2	Bromoform; Tribromomethane		0.030	0.50	*U*
75-15-0	Carbon disulfide		0.020	0.50	*U*
56-23-5	Carbon tetrachloride		0.030	0.50	*U*
108-90-7	Chlorobenzene		0.020	0.50	*U*
75-00-3	Chloroethane; Ethyl chloride		0.20	0.50	*U*
67-66-3	Chloroform; Trichloromethane		0.030	0.50	*U*
124-48-1	Dibromochloromethane; Chlorodibromomethane		0.040	0.50	*U*
96-12-8	1,2-Dibromo-3-chlorpropane; DBCP		0.25	0.50	*U*
106-93-4	1,2-Dibromoethane; Ethylene dibromide; EDB		0.040	0.50	*U*
95-50-1	o-Dichlorobenzene; 1,2-Dichlorobenzene		0.030	0.50	*U*
106-46-7	p-Dichlorobenzene; 1,4-Dichlorobenzene		0.030	0.50	*U*
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	*U*
75-34-3	1,1-Dichloroethane; Ethylidene chloride		0.020	0.50	*U*
107-06-2	1,2-Dichloroethane; Ethlyene dichloride		0.030	0.50	*U*
75-35-4	1,1-Dichloroethylene; 1-1-Dichloroethene; Vinylide		0.040	0.50	*U*
156-59-2	cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene		0.030	0.50	*U*
156-60-5	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethe		0.050	0.50	*U*
78-87-5	1,2-Dichlorpropane; Propylene dichloride		0.12	0.50	*U*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	*U*
100-41-4	Ethylbenzene		0.040	0.50	*U*
591-78-6	2-hexanone; Methyl butyl ketone		0.51	2.5	*U*
74-83-9	Methyl bromide; Bromomethane		0.11	0.50	*U*
74-87-3	Methyl chloride; Chloromethane		0.11	0.50	*U*
74-95-3	Methylene bromide Dibromomethane		0.030	0.50	*U*
75-09-2	Methylene chloride; Dichloromethane		0.020	0.50	*U*
78-93-3	Methyl ethyl ketone; MEK; 2-Butanone		0.28	2.5	*U*

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SW 8260B

9809-GMW4

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0490.d Sampled: 11/21/13 08:45

Initial/Final: 25mL / 25mL Lab ID: 1311086-04 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 20:56

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
74-88-4	Methyl iodide; Iodomethane		0.030	0.50	*U*
108-10-1	4-Methyl-2-pentanone; Methyl isobutyl isobutyl ket		0.42	2.5	*U*
100-42-5	Styrene		0.020	0.50	*U*
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	*U*
127-18-4	Tetrachloroethylene; Tetracholorethene; Perchloroe		0.060	0.50	*U*
108-88-3	Toluene		0.030	0.50	*U*
71-55-6	1,1,1-Trichloroethane; Methylchloroform		0.020	0.50	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50	*U*
79-01-6	Trichloroethylene; Trichlorethene		0.030	0.50	*U*
75-69-4	Trichlorofluoromethane; CFC-11		0.060	0.50	*U*
96-18-4	1,2,3-Trichloropropane		0.090	0.50	*U*
108-05-4	Vinyl acetate		0.060	0.50	*U*
75-01-4	Vinyl chloride		0.070	0.50	*U*
1330-20-7	Xylenes		0.030	0.50	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.812	116	65 - 150	
1,2-Dichloroethane-d4	5.000	5.872	117	59 - 150	
Toluene-d8	5.000	5.437	109	61 - 145	
Bromofluorobenzene	5.000	5.544	111	63 - 143	

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SW 8260B

9809-TB

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0590.d Sampled: 11/21/13 00:00

Initial/Final: 25mL / 25mL Lab ID: 1311086-05 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 21:27

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
67-64-1	Acetone	2.8	0.44	2.5	
107-13-1	Acrylonitrile		0.36	5.0	*U*
71-43-2	Benzene		0.030	0.50	*U*
74-97-5	Bromochloromethane		0.040	0.50	*U*
75-27-4	Bromodichloromethane		0.030	0.50	*U*
75-25-2	Bromoform; Tribromomethane		0.030	0.50	*U*
75-15-0	Carbon disulfide		0.020	0.50	*U*
56-23-5	Carbon tetrachloride		0.030	0.50	*U*
108-90-7	Chlorobenzene		0.020	0.50	*U*
75-00-3	Chloroethane; Ethyl chloride		0.20	0.50	*U*
67-66-3	Chloroform; Trichloromethane		0.030	0.50	*U*
124-48-1	Dibromochloromethane; Chlorodibromomethane		0.040	0.50	*U*
96-12-8	1,2-Dibromo-3-chlorpropane; DBCP		0.25	0.50	*U*
106-93-4	1,2-Dibromoethane; Ethylene dibromide; EDB		0.040	0.50	*U*
95-50-1	o-Dichlorobenzene; 1,2-Dichlorobenzene		0.030	0.50	*U*
106-46-7	p-Dichlorobenzene; 1,4-Dichlorobenzene		0.030	0.50	*U*
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	*U*
75-34-3	1,1-Dichloroethane; Ethylidene chloride		0.020	0.50	*U*
107-06-2	1,2-Dichloroethane; Ethlyene dichloride		0.030	0.50	*U*
75-35-4	1,1-Dichloroethylene; 1-1-Dichloroethene; Vinylide		0.040	0.50	*U*
156-59-2	cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene		0.030	0.50	*U*
156-60-5	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethe		0.050	0.50	*U*
78-87-5	1,2-Dichlorpropane; Propylene dichloride		0.12	0.50	*U*
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	*U*
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	*U*
100-41-4	Ethylbenzene		0.040	0.50	*U*
591-78-6	2-hexanone; Methyl butyl ketone		0.51	2.5	*U*
74-83-9	Methyl bromide; Bromomethane		0.11	0.50	*U*
74-87-3	Methyl chloride; Chloromethane		0.11	0.50	*U*
74-95-3	Methylene bromide Dibromomethane		0.030	0.50	*U*
75-09-2	Methylene chloride; Dichloromethane		0.020	0.50	*U*
78-93-3	Methyl ethyl ketone; MEK; 2-Butanone		0.28	2.5	*U*

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SW 8260B

9809-TB

Client: BABB & ASSOCIATES, P.A. SDG 1311086 Project: WILSON C&D

Matrix: Water Preparation: EPA 5030B File ID: 1311086-0590.d Sampled: 11/21/13 00:00

Initial/Final: 25mL / 25mL Lab ID: 1311086-05 Received: 11/22/13 10:05

Dilution: 1 pH: 1 Prepared: 12/02/13 16:35

% Moisture: NA Analyzed: 12/02/13 21:27

Batch: 3120210 Sequence: 3L02001 Calibration: 3112609 Instrument: 5973hp90

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
74-88-4	Methyl iodide; Iodomethane		0.030	0.50	*U*
108-10-1	4-Methyl-2-pentanone; Methyl isobutyl isobutyl ket		0.42	2.5	*U*
100-42-5	Styrene		0.020	0.50	*U*
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	*U*
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	*U*
127-18-4	Tetrachloroethylene; Tetracholorethene; Perchloroe		0.060	0.50	*U*
108-88-3	Toluene	0.048	0.030	0.50	*J*
71-55-6	1,1,1-Trichloroethane; Methylchloroform		0.020	0.50	*U*
79-00-5	1,1,2-Trichloroethane		0.040	0.50	*U*
79-01-6	Trichloroethylene; Trichlorethene		0.030	0.50	*U*
75-69-4	Trichlorofluoromethane; CFC-11		0.060	0.50	*U*
96-18-4	1,2,3-Trichloropropane		0.090	0.50	*U*
108-05-4	Vinyl acetate		0.060	0.50	*U*
75-01-4	Vinyl chloride		0.070	0.50	*U*
1330-20-7	Xylenes		0.030	0.50	*U*

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.819	116	65 - 150	
1,2-Dichloroethane-d4	5.000	5.784	116	59 - 150	
Toluene-d8	5.000	5.470	109	61 - 145	
Bromofluorobenzene	5.000	5.411	108	63 - 143	

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