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):

Mecklenburg County Solid Waste Services

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

Name: Amber R. Grzymski, P.G. Phone: 704-432-2478

E-mail: Amber.Grzymski@mecklenburgcountync.gov

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Harrisburg Road Landfill	7817 Harrisburg Road, Charlotte	60-01	.0500	December 8-9, 2014

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.

Amber R. Grzymski, P.G. — Project Manager — 704-432-2478

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

Signature — 1-14-2015 Date — Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1877 GEOLOGIST AMBER RANGE GRZYMSKI

700 N Tryon Street, Charlotte, NC 28202

Facility Representative Address

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

Revised 6/2009

MECKLENBURG COUNTY

Land Use and Environmental Services Agency
Solid Waste Services

January 14, 2015

Ms. Jaclynne Drummond
North Carolina Department of Environment
and Natural Resources
Division of Waste Management
Groundwater Compliance Unit
Mail Service Center 1646
Raleigh, NC 27699-1646

Subject: Water Quality Monitoring Report
Harrisburg Road Landfill, Permit 60-01

Dear Ms. Drummond:

Mecklenburg County conducted semi-annual water quality monitoring at the closed Harrisburg Road Landfill December 8 & 9, 2014 in accordance with the approved revised sample and analysis plan dated May 11, 2004. Samples were collected from seven monitoring wells (HBW12B, HBW14, HBW17B, HBW20, HBW21, HBW22 and background well HBW28), one potable well (MAINTE) and, three surface-water sampling locations (HB2006, HB2008 and, HB2010). Laboratory analytical data, field-measured data, and a table of results exceeding water quality standards along with a preliminary explanation of the cause and significance are included on the electronic data deliverable (EDD) submittal on the enclosed CD. Water supply well HBW744 has been disconnected and can no longer be sampled. The residence is connected to city water.

The EDD containing the monitoring data are labeled to reflect the units that are used for reporting. Detection levels and applicable standards have been included for all sampling locations. Surface water standards listed are the water quality standards established for freshwater classification for aquatic life as outlined in 15A NCAC 2B "Classification and Water Quality Standards Applicable to Surface Waters of North Carolina". Groundwater standards listed are the standards outlined in 15A NCAC 2L "Classification of Water Quality Standards applicable to the Groundwaters of North Carolina". If the sample is reported in parts per billion, then the standard is also reported in parts per billion.

Surface-water samples:
Copper was detected in HB2006 and HB2010 at levels of 3.1 ug/l and 2.0 ug/l, respectively. This is below the 2B surface water standard of 7 ug/l. Field-measured parameters for surface-water samples were within the range of established standards and are summarized in the table below.

Location	Temperature	PH	Specific Conductivity	Dissolved Oxygen
HB2006	7.4 ° C	7.1	0.218 ms/cm	11.01 mg/l
HB2008	7.2 ° C	7.0	0.231 ms/cm	10.32 mg/l
HB2010	7.2 ° C	6.8	0.265 ms/cm	9.91 mg/l

Groundwater samples:
Cobalt and Vanadium were detected above the 2L standard in several of the samples. This is due to the new published 2L standards for Cobalt and Vanadium as of October 1, 2010. Chromium was detected above the 2L standard in HBW22 and Lead was detected above the 2L standard in HBW28. The table below summarizes metals detections in groundwater samples.

Well ID	Ba ug/l	Be ug/l	Cd ug/l	Cr ug/l	Co ug/l	Cu ug/l	Ni ug/l	Pb ug/l	Vn ug/l	Zn ug/l
HBW12B	-----	-----	-----	-----	**5.8**	4.8	-----	-----	**11**	-----
HBW14	-----	-----	-----	-----	-----	8.5	-----	-----	----	-----
HBW17B	-----	-----	----	-----	**22**	44	-----	-----	**6.6**	32
HBW20	-----	-----	-----	-----	-----	4.2	-----	-----	**11**	11
HBW21	-----	-----	-----	-----	-----	5.5	-----	-----	**11**	-----
HBW22	-----	-----	-----	**70**	-----	16	13	-----	**7.9**	31
HBW28	-----	-----	-----	5.1	**37**	42	9	**22**	**11**	20
MAINTE	-----	-----	-----	-----	-----	51	-----	-----	**5.1**	160
2L Std. ug/l	700	4	2	10	1	1,000	100	15	0.3	1,000

Note: Bolded results exceed 2L Standard

The following eight volatile organic compounds ("VOCs") were detected in the sample collected from well HBW17B:

VOC	Sample Result ug/l	2L Standard ug/l
Benzene	**12**	**1**
Tetrachloroethylene	**37**	**0.7**
Trichloroethylene	**30**	**3**
1,1-Dichloroethane	**10**	**6**
1,2-Dichloropropane	**12**	**0.6**
cis-1,2 Dichloroethene	**140**	**70**
Methylene Chloride	**10**	**5**
Xylenes (total)	14	500

Note: Bolded results exceed 2L Standard

In the samples collected from HBW12B, HBW17B, HBW21, HBW22 and background monitoring well HBW28, pH was measured to be more acidic than the standard. Field-measured parameters for groundwater samples are summarized in the following table:

Location	Temperature	pH	Conductivity
HBW12B	14.4 °C	**6.3**	0.291 ms/cm
HBW14	14.9 °C	6.6	0.202 ms/cm
HBW17B	15.5 °C	**4.9**	0.058 ms/cm
HBW20	15.5 °C	6.5	0.125 ms/cm
HBW21	15.2 °C	**6.1**	0.220 ms/cm
HBW22	16.6 °C	**6.0**	0.058 ms/cm
HBW28	16.2 °C	**4.7**	0.039 ms/cm
MAINTE	16.3 °C	6.9	0.064 ms/cm

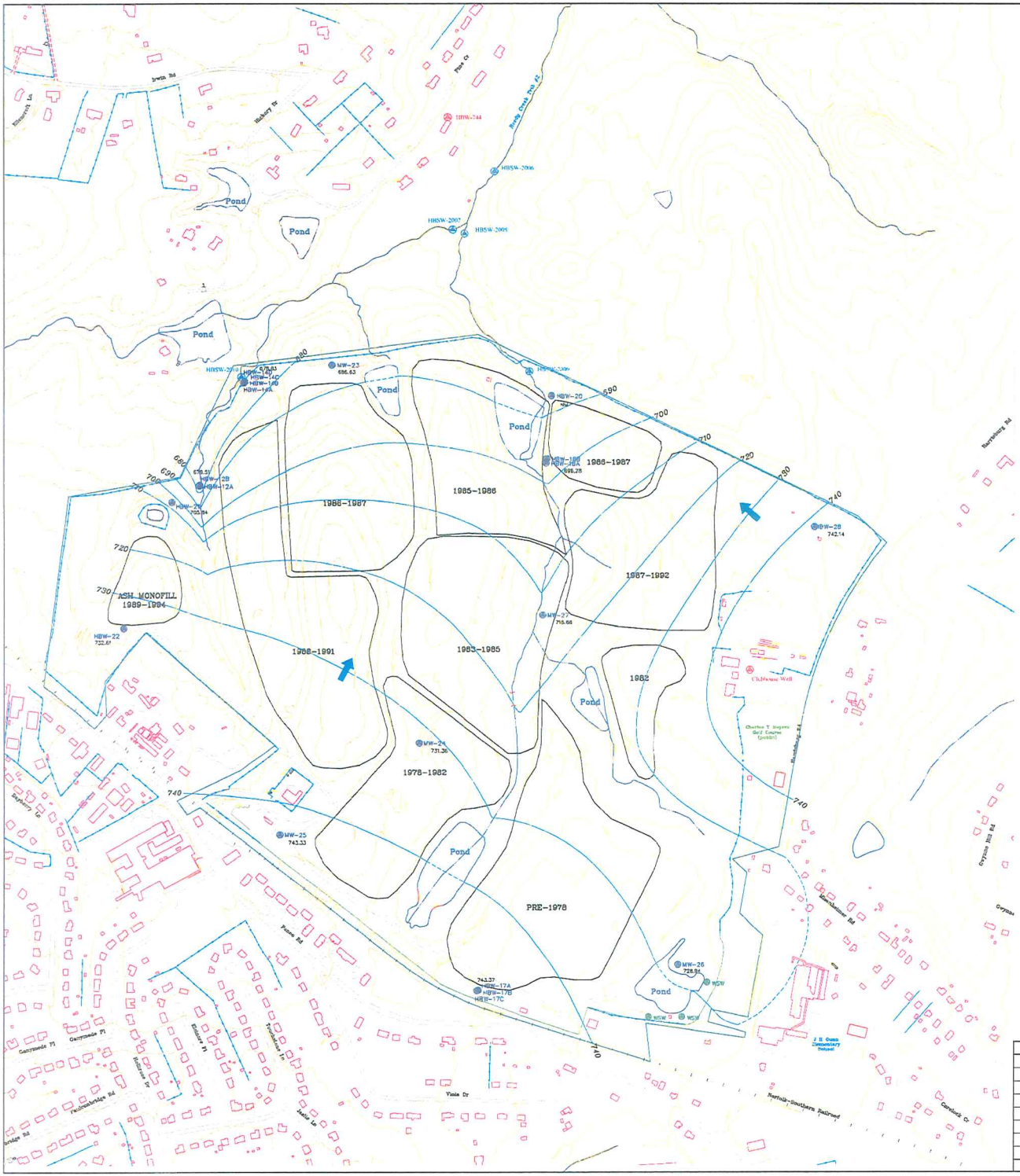
Note: Bolded results are outside of the 6.5 to 8.5 S.U. range 2L Standard

Please call me at (704) 432-2478, if you have any questions concerning this report.

NORTH CAROLINA LICENSED SEAL 1877 GEOLOGIST AMBER RANGE GRZYMSKI

Sincerely,

Amber R. Grzymski, P.G.
Project Manager
LUESA Solid Waste Services



LEGEND

- MONITORING WELL
- POTABLE WELL
- SURFACE-WATER SAMPLING LOCATIONS
- WATER SUPPLY WELLS FOR IRRIGATION PURPOSES
- 731.46 GROUNDWATER SURFACE ELEVATION (FT) (4/23/01)
- APPROXIMATE WASTE BOUNDARY AND DATES OF PLACEMENT
- GROUNDWATER SURFACE (ESTIMATED WHERE DASHED)
- GENERALIZED GROUNDWATER FLOW DIRECTION
- PLANIMETRIC FENCELINE CAPTURED AT PHOTOSCALE 1" = 1000'
- SURFACE WATER CAPTURED AT PHOTOSCALE 1" = 1000'
- TAX PARCEL BOUNDARY

NOTES:

1. ALL ON SITE WELL LOCATIONS WERE SURVEYED BY FDL ASSOC.
2. GROUNDWATER DATA REFLECTS PUMPING CONDITIONS FROM WATER SUPPLY WELLS IN THE AREA OF MW-26.
3. SURFACE-WATER SAMPLING SITES LOCATED USING GPS - SEPTEMBER 3, 2002
4. GROUNDWATER SURFACE CONTOURS BASED ON S&ME MAP DATED JUNE 4, 2001
5. HBW-28 RENAMED FROM MW-28

GRAPHIC SCALE

600 200 150 0 300 600

(IN FEET)
1 inch = 300 ft.

SOURCE: MECKLENBURG COUNTY GIS AND GPS SURVEY FOR WELL LOCATIONS AND S&ME MAP DATED JUNE 4, 2001

NO.	DATE:	DESCRIPTION	BY

SAMPLE LOCATION PLAN

HARRISBURG ROAD LANDFILL
CHARLOTTE, NORTH CAROLINA

SCALE: 1" = 300'	DRAWN BY: S.GREGORY	CHECKED BY:
JOB NO: MAP/GIS	DATE: 10/15/02	FIGURE: FIGURE 1

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92074
LOC ID: G-6001-HB2006
SAMPLE DATE-TIME: 12/08/2014 13:30
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22653**							
AF22653	Metals Digestion	Completed			EPA 200.2	12/09/2014	08:34	RDB
AF22653	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/12/2014	16:30	CJG
AF22653	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/12/2014	16:30	CJG
AF22653	Chromium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:30	CJG
AF22653	Cobalt by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:30	CJG
AF22653	Nickel by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:30	CJG
AF22653	Vanadium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:30	CJG
AF22653	Zinc by ICPOES	< 10	ug/L	10	EPA 200.7	12/12/2014	16:30	CJG
AF22653	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:11	RDB
AF22653	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:11	RDB
AF22653	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/09/2014	18:11	RDB
AF22653	Copper by ICPMS	3.1	ug/L	2.0	EPA 200.8	12/09/2014	18:11	RDB
AF22653	Lead by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:11	RDB
AF22653	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:11	RDB
AF22653	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:11	RDB
AF22653	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	13:18	NVR
AF22653	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92074
LOC ID: G-6001-HB2006
SAMPLE DATE-TIME: 12/08/2014 13:30
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22653	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL
AF22653	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	10:40	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92074
LOC ID: G-6001-HB2008
SAMPLE DATE-TIME: 12/08/2014 13:40
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22654**							
AF22654	Metals Digestion	Completed			EPA 200.2	12/09/2014	08:34	RDB
AF22654	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/12/2014	16:34	CJG
AF22654	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/12/2014	16:34	CJG
AF22654	Chromium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:34	CJG
AF22654	Cobalt by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:34	CJG
AF22654	Nickel by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:34	CJG
AF22654	Vanadium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:34	CJG
AF22654	Zinc by ICPOES	< 10	ug/L	10	EPA 200.7	12/12/2014	16:34	CJG
AF22654	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:25	RDB
AF22654	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:25	RDB
AF22654	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/09/2014	18:25	RDB
AF22654	Copper by ICPMS	< 2.0	ug/L	2.0	EPA 200.8	12/09/2014	18:25	RDB
AF22654	Lead by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:25	RDB
AF22654	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:25	RDB
AF22654	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:25	RDB
AF22654	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	13:24	NVR
AF22654	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92074
LOC ID: G-6001-HB2008
SAMPLE DATE-TIME: 12/08/2014 13:40
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22654	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL
AF22654	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:05	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92074
LOC ID: G-6001-HB2010
SAMPLE DATE-TIME: 12/08/2014 11:30
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22655**							
AF22655	Metals Digestion	Completed			EPA 200.2	12/09/2014	08:34	RDB
AF22655	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/12/2014	16:53	CJG
AF22655	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/12/2014	16:53	CJG
AF22655	Chromium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:53	CJG
AF22655	Cobalt by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:53	CJG
AF22655	Nickel by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:53	CJG
AF22655	Vanadium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:53	CJG
AF22655	Zinc by ICPOES	< 10	ug/L	10	EPA 200.7	12/12/2014	16:53	CJG
AF22655	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:29	RDB
AF22655	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:29	RDB
AF22655	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/09/2014	18:29	RDB
AF22655	Copper by ICPMS	2.0	ug/L	2.0	EPA 200.8	12/09/2014	18:29	RDB
AF22655	Lead by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:29	RDB
AF22655	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:29	RDB
AF22655	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:29	RDB
AF22655	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	13:46	NVR
AF22655	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92074
LOC ID: G-6001-HB2010
SAMPLE DATE-TIME: 12/08/2014 11:30
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22655	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL
AF22655	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:31	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92072
LOC ID: G-6001-HBW28
SAMPLE DATE-TIME: 12/08/2014 14:20
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22656**							
AF22656	Metals Digestion	Completed			EPA 200.2	12/09/2014	08:34	RDB
AF22656	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/12/2014	16:26	CJG
AF22656	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/12/2014	16:26	CJG
AF22656	Chromium by ICPOES	5.1	ug/L	5.0	EPA 200.7	12/12/2014	16:26	CJG
AF22656	Cobalt by ICPOES	37	ug/L	5.0	EPA 200.7	12/12/2014	16:26	CJG
AF22656	Nickel by ICPOES	9.0	ug/L	5.0	EPA 200.7	12/12/2014	16:26	CJG
AF22656	Vanadium by ICPOES	11	ug/L	5.0	EPA 200.7	12/12/2014	16:26	CJG
AF22656	Zinc by ICPOES	20	ug/L	10	EPA 200.7	12/12/2014	16:26	CJG
AF22656	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:07	RDB
AF22656	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:07	RDB
AF22656	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/09/2014	18:07	RDB
AF22656	Copper by ICPMS	42	ug/L	2.0	EPA 200.8	12/09/2014	18:07	RDB
AF22656	Lead by ICPMS	22	ug/L	5.0	EPA 200.8	12/09/2014	18:07	RDB
AF22656	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:07	RDB
AF22656	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:07	RDB
AF22656	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	13:29	NVR
AF22656	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92072
LOC ID: G-6001-HBW28
SAMPLE DATE-TIME: 12/08/2014 14:20
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22656	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL
AF22656	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	11:57	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92072
LOC ID: G-6001-HBW20
SAMPLE DATE-TIME: 12/08/2014 10:50
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22657**							
AF22657	Metals Digestion	Completed			EPA 200.2	12/09/2014	08:34	RDB
AF22657	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/12/2014	16:18	CJG
AF22657	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/12/2014	16:18	CJG
AF22657	Chromium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:18	CJG
AF22657	Cobalt by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:18	CJG
AF22657	Nickel by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:18	CJG
AF22657	Vanadium by ICPOES	11	ug/L	5.0	EPA 200.7	12/12/2014	16:18	CJG
AF22657	Zinc by ICPOES	11	ug/L	10	EPA 200.7	12/12/2014	16:18	CJG
AF22657	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:00	RDB
AF22657	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:00	RDB
AF22657	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/09/2014	18:00	RDB
AF22657	Copper by ICPMS	4.2	ug/L	2.0	EPA 200.8	12/09/2014	18:00	RDB
AF22657	Lead by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:00	RDB
AF22657	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:00	RDB
AF22657	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:00	RDB
AF22657	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	13:35	NVR
AF22657	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92072
LOC ID: G-6001-HBW20
SAMPLE DATE-TIME: 12/08/2014 10:50
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22657	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL
AF22657	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:22	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92072
LOC ID: G-6001-HBW14
SAMPLE DATE-TIME: 12/08/2014 11:15
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22658**							
AF22658	Metals Digestion	Completed			EPA 200.2	12/09/2014	08:34	RDB
AF22658	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/12/2014	16:22	CJG
AF22658	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/12/2014	16:22	CJG
AF22658	Chromium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:22	CJG
AF22658	Cobalt by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:22	CJG
AF22658	Nickel by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:22	CJG
AF22658	Vanadium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/12/2014	16:22	CJG
AF22658	Zinc by ICPOES	< 10	ug/L	10	EPA 200.7	12/12/2014	16:22	CJG
AF22658	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:03	RDB
AF22658	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:03	RDB
AF22658	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/09/2014	18:03	RDB
AF22658	Copper by ICPMS	8.5	ug/L	2.0	EPA 200.8	12/09/2014	18:03	RDB
AF22658	Lead by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:03	RDB
AF22658	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:03	RDB
AF22658	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/09/2014	18:03	RDB
AF22658	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	13:40	NVR
AF22658	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92072
LOC ID: G-6001-HBW14
SAMPLE DATE-TIME: 12/08/2014 11:15
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22658	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL
AF22658	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	12:48	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92072
LOC ID: G-BLANK
SAMPLE DATE-TIME: 12/08/2014 09:30
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22659**							
AF22659	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 12/22/2014 15:37

LOCATION: GWO-92072
LOC ID: G-BLANK
SAMPLE DATE-TIME: 12/08/2014 09:30
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141208024

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22659	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL
AF22659	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:14	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT

ENVIRONMENTAL LABORATORY SERVICES

4222 Westmont Drive, Charlotte, NC 28217 (704) 336 - 2854 or (704) 622 - 7280

NC DENR Certification No. 192; NC DHHS Certification No. 37417; US EPA Certification No. 01215

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT

CHAIN OF CUSTODY RECORD

COC #: 141208024 PAGE OF

CLIENT:	Mecklenburg County, LUESA - Solid Waste Services	**Send REPORT To:**	Amber Grzymski 700 North Tryon Street Charlotte, NC 28202
FACILITY:	Harrisburg Road Landfill, Permit # 60-01	**Send INVOICE To:**	Joe Hack 700 North Tryon Street Charlotte, NC 28202
ADDRESS:	7819 Harrisburg Road	Sampled By (Print Name):	Amber R. Grzymski
LAB CODE:	HARRISBURG	Witnessed By (Print & Sign Name - If Applicable):	
		Project Name or Code:	HARRISBURG

LOCATION DESCRIPTION: GWO - 92074

Sample ID	Sample Collector's Initials	Sample Collection: Begin Date / Time	Sample Collection: End Date / Time	Chlorinated System: (Y/N)	Sample Temperature: Collection Temp, °C	Sample Temperature: Receipt Temp, °C	Sample Type: Depth Composite	Sample Type: Auto Composite	Sample Type: Hand Composite	Sample Type: Grab	Sample Containers: Plastic	Sample Containers: Glass	Sample Containers: # of Containers	Chemical Preservative: None	Chemical Preservative: HNO3	Chemical Preservative: H2SO4	Chemical Preservative: NaOH	Chemical Preservative: HCl	Chemical Preservative: Na2S2O3	Chemical Preservative: pH Correct?	Analyses: VOA, EPA 8260	Analyses: Metals (List Below)	CUSTOMER USE ONLY Field Analysis: Conductivity (ms/cm)	CUSTOMER USE ONLY Field Analysis: pH (s.u.)	LAB USE ONLY LABORATORY SAMPLE ID
G-6001-HB2006	ARG	13:30 12/8/14	NA NA	N	7.4	5.3				x		40 ml	2					x			x		0.218	7.1	AF22653A1,A2
G-6001-HB2006	ARG	13:30 12/8/14	NA NA	N	7.4	2.5				x	500 ml		1		x					2		x			↓ B
G-6001-HB2008	ARG	13:40 12/8/14	NA NA	N	7.2	4.6				x		40 ml	2					x			x		0.231	7.0	AF22654A1,A2
G-6001-HB2008	ARG	13:40 12/8/14	NA NA	N	7.2	3.4				x	500 ml		1		x					2		x			↓ B
G-6001-HB2010	ARG	11:30 12/8/14	NA NA	N	7.2	3.9				x		40 ml	2					x			x		0.265	[illegible]	AF22655A1,A2
G-6001-HB2010	ARG	11:30 12/8/14	NA NA	N	7.2	1.3				x	500 ml		1		x					2		x		6.8	↓ B
~~G-BLANK~~	~~ARG~~		NA NA	N						x		40 ml	2					x			x				X

Instructions:

Complete all yellow shaded areas. Blue areas are for LAB USE ONLY.

For each parameter requested, circle the "x" to verify your request.

Nutrients include: Nitrate/Nitrite, TKN, Total Phosphours, Ammonia

Itemize Metals Here: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Ni, Se, Ag, Tl, V, Cu, Zn

For Composite samples, record the autosampler BEGIN and END date/time.

For Grab samples, record the collection time as the BEGIN date/time only.

Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:
[signature]	[signature]	12-8-14	1520
Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:

Form Revision 08; Effective April 1, 2012

CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT

ENVIRONMENTAL LABORATORY SERVICES

4222 Westmont Drive, Charlotte, NC 28217 (704) 336 - 2854 or (704) 622 - 7280

NC DENR Certification No. 192; NC DHHS Certification No. 37417; US EPA Certification No. 01215

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT

CHAIN OF CUSTODY RECORD

COC #: 141208024 PAGE OF

CLIENT:	Mecklenburg County, LUESA - Solid Waste Services	Send REPORT To:	Amber Grzymski 700 North Tryon Street Charlotte, NC 28202
FACILITY:	Harrisburg Road Landfill, Permit # 60-01	Send INVOICE To:	Joe Hack 700 North Tryon Street Charlotte, NC 28202
ADDRESS:	7819 Harrisburg Road	Sampled By (Print Name):	Amber R. Grzymski
LAB CODE:	HARRISBURG	Witnessed By (Print & Sign Name - If Applicable):	
		Project Name or Code:	HARRISBURG

LOCATION DESCRIPTION: GWO - 92072

Sample ID	Sample Collector's Initials	Sample Collection: Begin Date / Time	Sample Collection: End Date / Time	Chlorinated System: (Y/N)	Sample Temperature: Collection Temp, °C	Sample Temperature: Receipt Temp, °C	Sample Type: Depth Composite	Sample Type: Auto Composite	Sample Type: Hand Composite	Sample Type: Grab	Sample Containers: Plastic	Sample Containers: Glass	Sample Containers: # of Containers	Chemical Preservative: None	Chemical Preservative: HNO3	Chemical Preservative: H2SO4	Chemical Preservative: NaOH	Chemical Preservative: HCl	Chemical Preservative: Na2S2O3	Chemical Preservative: pH Correct?	Analyses: VOA, EPA 8260	Analyses: Metals (List Below)	CUSTOMER USE ONLY Field Analysis: Conductivity (ms/cm)	CUSTOMER USE ONLY Field Analysis: pH (s.u.)	LAB USE ONLY LABORATORY SAMPLE ID
G-6001-HBW28	ARG	14:20 12/8/14	NA NA	N	16.2	4.0				x		40 ml	2					x			x		0.059	4.7	AF22656 A1, A2
G-6001-HBW28	ARG	14:20 12/8/14	NA NA	N	16.2	4.5				x	500 ml		1		x					2		x			↓ B
G-6001-HBW20	ARG	10:50 12/8/14	NA NA	N	15.5	4.2				x		40 ml	2					x			x		0.125	6.5	AF22657 A1, A2
G-6001-HBW20	ARG	10:50 12/8/14	NA NA	N	15.5	0.7				x	500 ml		1		x					2		x			↓ B
G-6001-HBW14	ARG	11:45 12/8/14	NA NA	N	14.9	2.6				x		40 ml	2					x			x		0.202	6.6	AF22658 A1, A2
G-6001-HBW14	ARG	11:45 12/8/14	NA NA	N	14.9	1.3				x	500 ml		1		x					2		x			↓ B
G-BLANK	ARG	9:30 12/8/14	NA NA	N	20.0	3.5				x		40 ml	2					x			x				AF22659 A1, A2

Instructions:

Complete all yellow shaded areas. Blue areas are for LAB USE ONLY.

For each parameter requested, circle the "x" to verify your request.

Nutrients include: Nitrate/Nitrite, TKN, Total Phosphours, Ammonia

Itemize Metals Here: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Ni, Se, Ag, Tl, V, Cu, Zn

For Composite samples, record the autosampler BEGIN and END date/time.

For Grab samples, record the collection time as the BEGIN date/time only.

Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:
[signature]	[signature]	12-8-14	1520
Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:

Form Revision 08; Effective April 1, 2012

Charlotte-Mecklenburg Utility Department
Environmental Laboratory Services
4222 Westmont Drive
Charlotte, North Carolina 28217

Sample Receipt Checklist

Completed by: **Initials:** JSB **Date/Time:** 12-8-14 1520 **COC#:** 141208024

Sample Matrix: [X] Wastewater [ ] Drinking Water [ ] *Crypto/Giardia* (LT2) [ ] Other: _____

Customer Name: [ ] WWTP: (Write Plant Name Below) [ ] Industrial Samples [ ] LT2: (Write Customer Name Below)
[ ] LUESA-Water Quality
[ ] CMUD-Water Treatment [ ] LUESA-GWS [ ] Other: (Write Customer Name Below)
[ ] Water Distribution [X] LUESA-SWP

Courier: [ ] CourierNet [X] Customer [ ] CMUD-Laboratory [ ] FedEx [ ] UPS [ ] Other: _____

Custody Seals on Cooler/Box Present: [ ] Yes [ ] No [X] N/A **Custody Seal(s) Intact?:** [ ] Yes [ ] No [X] N/A
Shipping Container Intact: [ ] Yes [ ] No [X] N/A **Type of Ice Used:** [X] Wet [ ] Blue [ ] None
Packing Material Used: [ ] Bubble Wrap/Bags [ ] Peanuts [X] None [ ] Other: _____

Thermal Preservation:
*Measure sample temperature immediately; Apply the Daily IR Correction Factor.
*Notify management immediately of any samples that do not meet temperature requirements or are frozen.
***If multiple parameters, in additional to BacT are collected for a site, two receipt temperatures must be measured. A receipt temperature for the BacT plus another bottle must be measured and recorded on the COC.**

Requirements: **DW: < 6.0°C** **WW: < 6°C** **BacT: < 10°C** **LT2 Crypto/Giardia: < 20°C** **LT2 E. coli: < 10°C**

Have all samples requiring a receipt temperature been measured and recorded? [X] Yes [ ] No If no, explain below.
Do all sample receipt temperatures meet requirements? [X] Yes [ ] No If no, explain below.

_____

_____

* At time of receipt into the laboratory, if a sample does not meet the temperature requirement, a downward trend is required. Initial temperature from the sample collector becomes critical. If samples are received next day, receipt temperatures must meet requirements listed above.

Chemical Preservation: Note: *If samples are not preserved correctly, notify Personnel. **Do not check BacT, TOC, VOA, THM and HAA.**

All containers needing preservation have been checked? [X] Yes [ ] No [ ] N/A
All containers needing preservation are found to be in EPA compliance? [X] Yes [ ] No [ ] N/A
If no, explain. _____

_____

***If the pH of a metals (not including Hg) is incorrect, follow these steps.**
1. On the COC, document sample pH prior to adding additional preservative.
2. On the COC and sample bottle, document the date/time additional preservative is added to the sample.
3. No comment is needed in LIMS.

***If the pH of any other chemically preserved sample is incorrect (not including metals), follow these steps:**
1. Any samples not properly preserved must be qualified with a comment on the COC and in LIMS.
2. Notify personnel immediately of samples not correctly preserved.

If possible, substitute a correctly preserved bottle. Document on the COC and notify personnel. Write "DO NOT USE" on the incorrectly preserved bottle.

COC Properly Filled Out? [X] Yes [ ] No If no, explain. _____

_____

COC Correction sent to Customer? [ ] Yes [ ] No [X] N/A

Do sample labels agree with the COC? [X] Yes [ ] No If no, explain. _____

_____

All sample bottles accounted for? [X] Yes [ ] No **Samples Arrived within Hold Time?** [X] Yes [ ] No (If no, notify Project Mgr)
Correct Bottles Used? [X] Yes [ ] No **CMUD Containers Used?** [X] Yes [ ] No
VOA Vials have Zero Headspace (< 6 mm)? [ ] Yes [ ] No [X] N/A *Bubbles should be no larger than: ●

Short Hold Analyses (< 48 hrs)? [X] Yes [ ] No If yes, notify Laboratory Section(s). **Rush Turn Around Time (TAT)?** [ ] Yes [X] No If yes, notify Project Manager.

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-6001-HBW21
SAMPLE DATE-TIME: 12/09/2014 09:55
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22769**							
AF22769	Metals Digestion	Completed			EPA 200.2	12/11/2014	09:14	CJG
AF22769	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/19/2014	15:36	CJG
AF22769	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/19/2014	15:36	CJG
AF22769	Chromium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/19/2014	15:36	CJG
AF22769	Cobalt by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/19/2014	15:36	CJG
AF22769	Nickel by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/19/2014	15:36	CJG
AF22769	Vanadium by ICPOES	11	ug/L	5.0	EPA 200.7	12/19/2014	15:36	CJG
AF22769	Zinc by ICPOES	< 10	ug/L	10	EPA 200.7	12/30/2014	12:24	AHM
AF22769	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	20:58	RDB
AF22769	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	20:58	RDB
AF22769	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/15/2014	20:58	RDB
AF22769	Copper by ICPMS	5.5	ug/L	2.0	EPA 200.8	12/15/2014	20:58	RDB
AF22769	Lead by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	20:58	RDB
AF22769	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	20:58	RDB
AF22769	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	20:58	RDB
AF22769	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	14:30	NVR
AF22769	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-6001-HBW21
SAMPLE DATE-TIME: 12/09/2014 09:55
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22769	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL
AF22769	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	13:40	MLL

Comment: Metals: Redigested 12/29/2014 at 09:24 for Zn

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-6001-HBW22
SAMPLE DATE-TIME: 12/09/2014 09:30
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22770**							
AF22770	Metals Digestion	Completed			EPA 200.2	12/11/2014	09:14	CJG
AF22770	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/19/2014	15:40	CJG
AF22770	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/19/2014	15:40	CJG
AF22770	Chromium by ICPOES	70	ug/L	5.0	EPA 200.7	12/19/2014	15:40	CJG
AF22770	Cobalt by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/19/2014	15:40	CJG
AF22770	Nickel by ICPOES	13	ug/L	5.0	EPA 200.7	12/19/2014	15:40	CJG
AF22770	Vanadium by ICPOES	7.9	ug/L	5.0	EPA 200.7	12/19/2014	15:40	CJG
AF22770	Zinc by ICPOES	31	ug/L	20	EPA 200.7	12/19/2014	15:40	CJG
AF22770	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:02	RDB
AF22770	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:02	RDB
AF22770	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/15/2014	21:02	RDB
AF22770	Copper by ICPMS	16	ug/L	2.0	EPA 200.8	12/15/2014	21:02	RDB
AF22770	Lead by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:02	RDB
AF22770	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:02	RDB
AF22770	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:02	RDB
AF22770	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	14:36	NVR
AF22770	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-6001-HBW22
SAMPLE DATE-TIME: 12/09/2014 09:30
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22770	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL
AF22770	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:05	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-6001-HBW17B
SAMPLE DATE-TIME: 12/09/2014 11:25
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22771**							
AF22771	Metals Digestion	Completed			EPA 200.2	12/11/2014	09:14	CJG
AF22771	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/19/2014	15:44	CJG
AF22771	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/19/2014	15:44	CJG
AF22771	Chromium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/19/2014	15:44	CJG
AF22771	Cobalt by ICPOES	22	ug/L	5.0	EPA 200.7	12/19/2014	15:44	CJG
AF22771	Nickel by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/19/2014	15:44	CJG
AF22771	Vanadium by ICPOES	6.6	ug/L	5.0	EPA 200.7	12/19/2014	15:44	CJG
AF22771	Zinc by ICPOES	32	ug/L	20	EPA 200.7	12/19/2014	15:44	CJG
AF22771	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:05	RDB
AF22771	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:05	RDB
AF22771	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/15/2014	21:05	RDB
AF22771	Copper by ICPMS	44	ug/L	2.0	EPA 200.8	12/15/2014	21:05	RDB
AF22771	Lead by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:05	RDB
AF22771	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:05	RDB
AF22771	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:05	RDB
AF22771	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	14:41	NVR
AF22771	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,1-Dichloroethane	10	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,2-Dichlorpropane	12	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Benzene	12	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-6001-HBW17B
SAMPLE DATE-TIME: 12/09/2014 11:25
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22771	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	cis-1,2- Dichloroethene	140	ug/L	6	SW846 / 8260B	12/09/2014	15:26	MLL
AF22771	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Methylene Chloride	10	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Tetrachloroethene	37	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Total Xylenes	14	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Trichloroethene	30	ug/L	3	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL
AF22771	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:31	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-6001-MAINTE
SAMPLE DATE-TIME: 12/09/2014 11:00
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22772**							
AF22772	Metals Digestion	Completed			EPA 200.2	12/11/2014	09:14	CJG
AF22772	Barium by ICPOES	< 100	ug/L	100	EPA 200.7	12/19/2014	15:48	CJG
AF22772	Beryllium by ICPOES	< 2.0	ug/L	2.0	EPA 200.7	12/19/2014	15:48	CJG
AF22772	Chromium by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/19/2014	15:48	CJG
AF22772	Cobalt by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/19/2014	15:48	CJG
AF22772	Nickel by ICPOES	< 5.0	ug/L	5.0	EPA 200.7	12/19/2014	15:48	CJG
AF22772	Vanadium by ICPOES	5.1	ug/L	5.0	EPA 200.7	12/19/2014	15:48	CJG
AF22772	Zinc by ICPOES	160	ug/L	20	EPA 200.7	12/19/2014	15:48	CJG
AF22772	Antimony by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:09	RDB
AF22772	Arsenic by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:09	RDB
AF22772	Cadmium by ICPMS	< 1.0	ug/L	1.0	EPA 200.8	12/15/2014	21:09	RDB
AF22772	Copper by ICPMS	51	ug/L	2.0	EPA 200.8	12/15/2014	21:09	RDB
AF22772	Lead by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:09	RDB
AF22772	Selenium by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:09	RDB
AF22772	Silver by ICPMS	< 5.0	ug/L	5.0	EPA 200.8	12/15/2014	21:09	RDB
AF22772	Thallium (TOTAL) Furnace	< 5.0	ug/L	5.0	EPA 200.9	12/17/2014	14:46	NVR
AF22772	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-6001-MAINTE
SAMPLE DATE-TIME: 12/09/2014 11:00
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22772	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL
AF22772	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	14:57	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

Environmental Laboratory Services

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-BLANK
SAMPLE DATE-TIME: 12/09/2014 09:10
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
Sample ID:	**AF22773**							
AF22773	1,1,1,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,1,1-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,1,2,2-Tetrachloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,1,2-Trichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,1-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,1-Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,2,3-Trichloropropane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,2-Dibromo-3-chloropropane	Less than	ug/L	10	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,2-Dibromoethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,2-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,2-Dichloroethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,2-Dichlorpropane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,3-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	1,4-Dichlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	2-Butanone (MEK)	Less than	ug/L	10	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	2-Chloroethyl vinyl ether	Less than	ug/L	10	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	2-Hexanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	4-Methyl-2-pentanone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Acetone	Less than	ug/L	10	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Acrolein	Less than	ug/L	50	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Acrylonitrile	Less than	ug/L	50	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Benzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Bromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Bromodichloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Bromoform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Bromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Carbon Disulfide	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Carbon Tetrachloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Chlorobenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Chloroethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Chloroform	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Chloromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	cis-1,2- Dichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	cis-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Dibromochloromethane	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Dibromomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Ethylbenzene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Iodomethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Methylene Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Methyl-tert-butyl-ether (MTBE)	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Styrene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Tetrachloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Toluene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Total Xylenes	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	trans-1,2-Dichloroethene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	trans-1,3-Dichloropropene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL

Environmental Laboratory Services

CHARLOTTE.
CHARLOTTE-MECKLENBURG UTILITIES

Laboratory Analysis Report
Report Date: 01/06/2015 15:15

LOCATION: GWO-92073
LOC ID: G-BLANK
SAMPLE DATE-TIME: 12/09/2014 09:10
SAMPLE DESCRIPTION: Grab

CHAIN OF CUSTODY #: 141209018

	Parameter	Result	Units	RL	Method	Start Date	/ Time	Analyst
AF22773	trans-1,4-Dichloro-2-butene	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Trichloroethene	Less than	ug/L	3	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Trichlorofluoromethane	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Vinyl acetate	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL
AF22773	Vinyl Chloride	Less than	ug/L	5	SW846 / 8260B	12/09/2014	15:51	MLL

Comment:

Laboratory Supervisor: _____

The results contained on this report are specific to the samples listed above.

CMU-Environmental Laboratory Services N.C. Certification No. 192 N.C.DHHS Certification No. 37417 EPA Certification No. 01215
4222 Westmont Drive, Charlotte, North Carolina 28217

CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT

ENVIRONMENTAL LABORATORY SERVICES

4222 Westmont Drive, Charlotte, NC 28217 (704) 336 - 2854 or (704) 622 - 7280

NC DENR Certification No. 192; NC DHHS Certification No. 37417; US EPA Certification No. 01215

CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT

CHAIN OF CUSTODY RECORD

COC #: 141209013 PAGE OF

CLIENT:	Mecklenburg County, LUESA - Solid Waste Services	Send REPORT To:	Send INVOICE To:
FACILITY:	Harrisburg Road Landfill, Permit # 60-01	Amber Grzymski	Joe Hack
ADDRESS:	7819 Harrisburg Road	700 North Tryon Street	700 North Tryon Street
LAB CODE:	HARRISBURG	Charlotte, NC 28202	Charlotte, NC 28202

Sampled By (Print Name): Amber R. Grzymski

Witnessed By (Print & Sign Name - If Applicable):

Project Name or Code: HARRISBURG

LOCATION DESCRIPTION: GWO - 92073

Sample ID	Sampe Collector's Initials	Sample Collection: Begin Date / Time	Sample Collection: End Date / Time	Chlorinated System: (Y/N)	Sample Temperature: Collection Temp. °C	Sample Temperature: Receipt Temp. °C	Sample Type: Depth Composite	Sample Type: Auto Composite	Sample Type: Hand Composite	Sample Type: Grab	Sample Containers: Plastic	Sample Containers: Glass	Sample Containers: # of Containers	Chemical Preservative: None	Chemical Preservative: HNO3	Chemical Preservative: H2SO4	Chemical Preservative: NaOH	Chemical Preservative: HCl	Chemical Preservative: Na2S2O3	Chemical Preservative: pH Correct?	Analyses: VOA, EPA 8260	Analyses: Metals (List Below)	CUSTOMER USE ONLY Field Analysis: Conductivity (ms/cm)	CUSTOMER USE ONLY Field Analysis: pH (s.u.)	LAB USE ONLY LABORATORY SAMPLE ID
G-6001-HBW21	ARG	9:55 12/9/14	NA NA	N	15.2	↑				x		40 ml	2					x			x		0.220	6.1	AF22769A1-A2
G-6001-HBW21	ARG	9:55 12/9/14	NA NA	N	15.2	1.6				x	500 ml		1		x				<2			x			↓ B
G-6001-HBW22	ARG	9:30 12/9/14	NA NA	N	16.6	↑				x		40 ml	2					x			x		0.058	6.0	AF22770A1-A2
G-6001-HBW22	ARG	9:30 12/9/14	NA NA	N	16.6	0.9				x	500 ml		1		x				<2			x			↓ B
G-6001-HBW17B	ARG	11:25 12/9/14	NA NA	N	15.5	↑				x		40 ml	2					x			x		0.058	4.9	AF22771A1-A2
G-6001-HBW17B	ARG	11:25 12/9/14	NA NA	N	15.5	1.2				x	500 ml		1		x				<2			x			↓ B
G-6001-MAINTE	ARG	11:00 12/9/14	NA NA	N	16.3	↑				x		40 ml	2					x			x		0.064	6.9	AF22772A1-A2
G-6001-MAINTE	ARG	11:00 12/9/14	NA NA	N	16.3	1.0				x	500 ml		1		x				<2			x			↓ B
G-BLANK	ARG	9:10 12/9/14	NA NA	N	20.0	5.8				x		40 ml	2					x			x				AF22773A1-A2

Instructions:

Complete all yellow shaded areas. Blue areas are for LAB USE ONLY.

For each parameter requested, circle the "x" to verify your request.

Nutrients include: Nitrate/Nitrite, TKN, Total Phosphours, Ammonia

Itemize Metals Here: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Ni, Se, Ag, Tl, V, Cu, Zn

For Composite samples, record the autosampler BEGIN and END date/time.

For Grab samples, record the collection time as the BEGIN date/time only.

Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:
[signature]	[signature]	12-9-14	1215
Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Military Time:

Form Revision 08; Effective April 1, 2012

Title: Sample Receipt Checklist
Release Date: December 12, 2011
Revision Date: January 29, 2013
Version: 2.0

Charlotte-Mecklenburg Utility Department
Environmental Laboratory Services
4222 Westmont Drive
Charlotte, North Carolina 28217

Sample Receipt Checklist

Completed by: **Initials:** CRB **Date/Time:** 12.9.14 1215 **COC#:** 141209018

Sample Matrix: ☑ Wastewater ☐ Drinking Water ☐ *Crypto/Giardia* (LT2) ☐ Other: _____

Customer Name: ☐ WWTP: (Write Plant Name Below) ☐ Industrial Samples ☐ LT2: (Write Customer Name Below)
☐ LUESA-Water Quality
☐ CMUD-Water Treatment ☑ LUESA-GWS ☐ Other: (Write Customer Name Below)
☐ Water Distribution ☑ LUESA-SWP

Courier: ☐ CourierNet ☑ Customer CRB 12-9-14 ☐ CMUD Laboratory ☐ FedEx ☐ UPS ☐ Other: _____

Custody Seals on Cooler/Box Present: ☐ Yes ☐ No ☑ N/A **Custody Seal(s) Intact?:** ☐ Yes ☐ No ☑ N/A
Shipping Container Intact: ☐ Yes ☐ No ☑ N/A **Type of Ice Used:** ☑ Wet ☐ Blue ☐ None
Packing Material Used: ☐ Bubble Wrap/Bags ☐ Peanuts ☑ None ☐ Other: _____

Thermal Preservation: *Measure sample temperature immediately; Apply the Daily IR Correction Factor.
*Notify management immediately of any samples that do not meet temperature requirements or are frozen.
***If multiple parameters, in additional to BacT are collected for a site, two receipt temperatures must be measured. A receipt temperature for the BacT plus another bottle must be measured and recorded on the COC.**

Requirements: **DW:** < 6.0°C **WW:** < 6°C **BacT:** < 10°C **LT2 Crypto/Giardia:** < 20°C **LT2 E. coli:** < 10°C

Have all samples requiring a receipt temperature been measured and recorded? ☑ Yes ☐ No If no, explain below.

Do all sample receipt temperatures meet requirements? ☑ Yes ☐ No If no, explain below.

_____

_____

* At time of receipt into the laboratory, if a sample does not meet the temperature requirement, a downward trend is required. Initial temperature from the sample collector becomes critical. If samples are received next day, receipt temperatures must meet requirements listed above.

Chemical Preservation: **Note:** *If samples are not preserved correctly, notify Personnel. **Do not check BacT, TOC, VOA, THM and HAA.**

All containers needing preservation have been checked? ☑ Yes ☐ No ☐ N/A

All containers needing preservation are found to be in EPA compliance? ☑ Yes ☐ No ☐ N/A
If no, explain. _____

_____

***If the pH of a metals (not including Hg) is incorrect, follow these steps.**
1. On the COC, document sample pH prior to adding additional preservative.
2. On the COC and sample bottle, document the date/time additional preservative is added to the sample.
3. No comment is needed in LIMS.

***If the pH of any other chemically preserved sample is incorrect (not including metals), follow these steps:**
1. Any samples not properly preserved must be qualified with a comment on the COC and in LIMS.
2. Notify personnel immediately of samples not correctly preserved.

If possible, substitute a correctly preserved bottle. Document on the COC and notify personnel. Write "DO NOT USE" on the incorrectly preserved bottle.

COC Properly Filled Out? ☑ Yes ☐ No If no, explain. _____

_____

COC Correction sent to Customer? ☐ Yes ☐ No ☑ N/A

Do sample labels agree with the COC? ☑ Yes ☐ No If no, explain. _____

_____

All sample bottles accounted for? ☑ Yes ☐ No **Samples Arrived within Hold Time?** ☑ Yes ☐ No (If no, notify Project Mgr)
Correct Bottles Used? ☑ Yes ☐ No **CMUD Containers Used?** ☑ Yes ☐ No
VOA Vials have Zero Headspace (< 6 mm)? ☑ Yes ☐ No ☐ N/A *Bubbles should be no larger than: ●

Short Hold Analyses (< 48 hrs)? ☐ Yes ☑ No If yes, notify Laboratory Section(s). **Rush Turn Around Time (TAT)?** ☐ Yes ☑ No If yes, notify Project Manager.