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):

Municipal Engineering Services Company, P.A.

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

Name: Jonathan Pfohl Phone: (919) 772-5393

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Yadkin County New Closed MSWLF and Closed C&D Landfill	Sugartown Road (SR 1623) Yadkinville, NC 27055	99-02	.0500	August 29, 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.

Steven R. Gandy, Ph.D., P.E. | Senior Project Manager | (919) 772-5393

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

Signature | 5/8/2015 Date | Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL SEAL 31020 ENGINEER STEVEN R. GANDY

P.O. BOX 97, Garner, NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

Semi-Annual Water Quality Monitoring Report

Prepared for

Yadkin County New Closed MSWLF and Closed C&D Landfill
Yadkinville, North Carolina

August 2014

Permit Number: 99-02
MESCO Project Number: G14017.0

Submitted on: May 8, 2015

P.O. Box 97
Garner, NC 27529
License No. C-0281

Municipal Services Garner, NC
Engineering Company, P.A. Boone, NC

Municipal Engineering Services Company, P.A.
Garner and Boone, North Carolina

TABLE OF CONTENTS

SECTION

Introduction ..... Page 1
Sampling Procedures ..... Page 1
Field Parameter Data ..... Page 2
Laboratory Results ..... Page 2
Quality Control Samples ..... Page 2
Groundwater Samples ..... Page 2
Surface Water Samples ..... Page 2
Surface Water Characterization ..... Page 2
Findings ..... Page 2
Closing ..... Page 2

TABLES

Groundwater Monitoring Well Construction Table ..... Table 1
Field Observations of Monitoring Locations ..... Table 2
Field Parameter Data Summary ..... Table 3
Sampling and Analysis Summary ..... Table 4
Detections Above SWSL, GWP, 2L, or 2B (Appendix 1) ..... Table 5

FIGURES

Water Quality Monitoring Locations ..... Figure 1

APPENDICIES

Laboratory Analysis Report and Chains of Custody ..... Appendix A
Field Sampling Parameter Data Sheet(s) ..... Appendix B

License No. C-0281

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS

SOLID WASTE MANAGEMENT

Municipal Services

Engineering Company, P.A.

SITE PLANNING/SUBDIVISIONS

SUBSURFACE UTILITY ENGINEERING (SUE)

May 8, 2015

Mr. Ervin Lane
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
217 West Jones Street
Raleigh, NC 27603

Re: ***Semi-Annual Water Quality Monitoring Report***
Yadkin County New Closed MSWLF and Closed C&D Landfill
Permit No. 99-02
MESCO Project No. G14017.0
Event Date: August 29, 2014

Dear Mr. Lane:

Introduction

The Yadkin County New Closed Unlined Municipal Solid Waste Landfill (MSWLF) and Closed Construction and Demolition (C&D) Landfill located near Yadkinville NC, that operated under Permit #99-02, is required to submit semi-annual compliance reports as a condition of its water quality monitoring program. Municipal Engineering Services Company, P.A. (MESCO) personnel of Garner NC performed this water quality monitoring event on August 29, 2014 in accordance with the established semi-annual schedule prescribed by the NC Solid Waste Section (SWS) rules/regulations. Laboratory analytical results indicate that no constituents were detected in any sample in concentrations above SWSL and NC 2L groundwater Standards except for total chromium collected from the upgradient background well.

As specified within 15A NCAC 13B.1632(j), the SWS Environmental Monitoring Report Form and a recent SWS memorandum, this report contains sampling procedures, field and laboratory results, surface water characterization. Well construction summary table, field observations table, field parameter data table, sampling and analysis summary table, detections compared to Standards tables, facility map with monitoring locations, quality assurance/quality control data, and laboratory analytical data results are enclosed herein.

Sampling Procedure

This monitoring event entailed collection and analysis of water samples from all eight downgradient monitoring wells (MW-2, MW-3, MW-4, MW-5S, MW-5D, MW-6, MW-7 and MW-8), one hydraulically upgradient background well (MW-1), and both surface water points (SW-1 and SW-2). Quality control samples including equipment blanks (EB) field blanks (FB) and travel blanks (TB) were also analyzed. Monitoring locations are shown on **Figure 1**.

MESCO personnel performed this sampling event utilizing portable monitoring methodology in general accordance with the *Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling* revised April 2008. A summary detailing the construction of the water monitoring wells is presented on **Table 1**. The function and integrity of all monitoring locations were visually evaluated and no deficiencies identified as documented on **Table 2.** The depth to water in each well was electronically gaged prior to purging to quantify the static water level elevation. Low-flow pumping methodology or bailing was used to adequately purge the wells to a minimum of three times the volume of standing water in the well or until dry. Surface water samples were dipped from the surface of the creeks at previously designated locations. Samples were then placed into laboratory-prepared pre-preserved containers. Samples were kept on ice and transported to a NC-certified laboratory under proper C-O-C protocol within the specified hold times for each analysis.

PO Box 97, Garner, North Carolina 27529 (919) 772-5393 PO Box 349, Boone, NC 28607 (828) 262-1767

Field Parameter Data

Stabilized field parameters were recorded which included pH, specific conductance, temperature, total dissolved solids (TDS) and visual turbidity. A summary of the field parameter data is presented in **Table 3** and the field sampling data sheet is enclosed in **Appendix B**.

Laboratory Results

Pace Analytical Laboratory Inc. of Huntersville and Asheville NC performed the laboratory analysis. Water samples were analyzed for constituents listed in 40 CFR 258 Appendix I and the required C&D parameter tetrahydrofuran. A sampling and analysis table summarizing the locations, constituents, and methods is presented on **Table 4**.

Water samples were analyzed to the laboratory-established Method Detection Limits (MDL), which are at or below the current Solid Waste Section Limit (SWSL). **Table 5** summarizes constituents detected in groundwater and surface water samples that attain or were above the current SWSL, Groundwater Protection Standards (GWP), North Carolina Groundwater Standards (2L), the applicable North Carolina Surface Water Standards (2B) for a Class C waterbody, and Maximum Contaminant Levels (MCL) also known as "Federal Primary Drinking Water Standards". Laboratory results and C-O-Cs are presented in **Appendix A**.

Quality Control Samples

Acetone was detected in all blanks (EB, FB, TB). Since acetone was not detected in any ground or surface water samples above regulatory Standards, any potential field/lab induced artifact contamination is considered inconsequential.

Groundwater Samples

The only detection in exceedance of 2L Standard was total chromium in hydraulically upgradient background well MW-1 (25.3 µg/L) which is above the 2L (10.0 µg/L).

Surface Water Samples

Neither surface water samples (SW-1 or SW-2) had reported detections of constituents at concentrations above the established SWSL or applicable 2B Standard.

Surface Water Characterization

The surface waters were visually observed to have low seasonal flow, low gage height and low turbidity.

Findings

No constituents were detected in any of the ground or surface water samples above regulatory compliance Standards and above background levels established by MW-1 located hydraulically upgradient of the closed landfills.

Closing

The closed facility continued semi-annual water quality monitoring and was sampled again in February 2015. If you have any questions or comments regarding this report, please contact us at (919) 772-5393 or by email at jpfohl@mesco.com or sgandy@mesco.com

Sincerely,
MUNICIPAL ENGINEERING SERVICES CO., P.A.

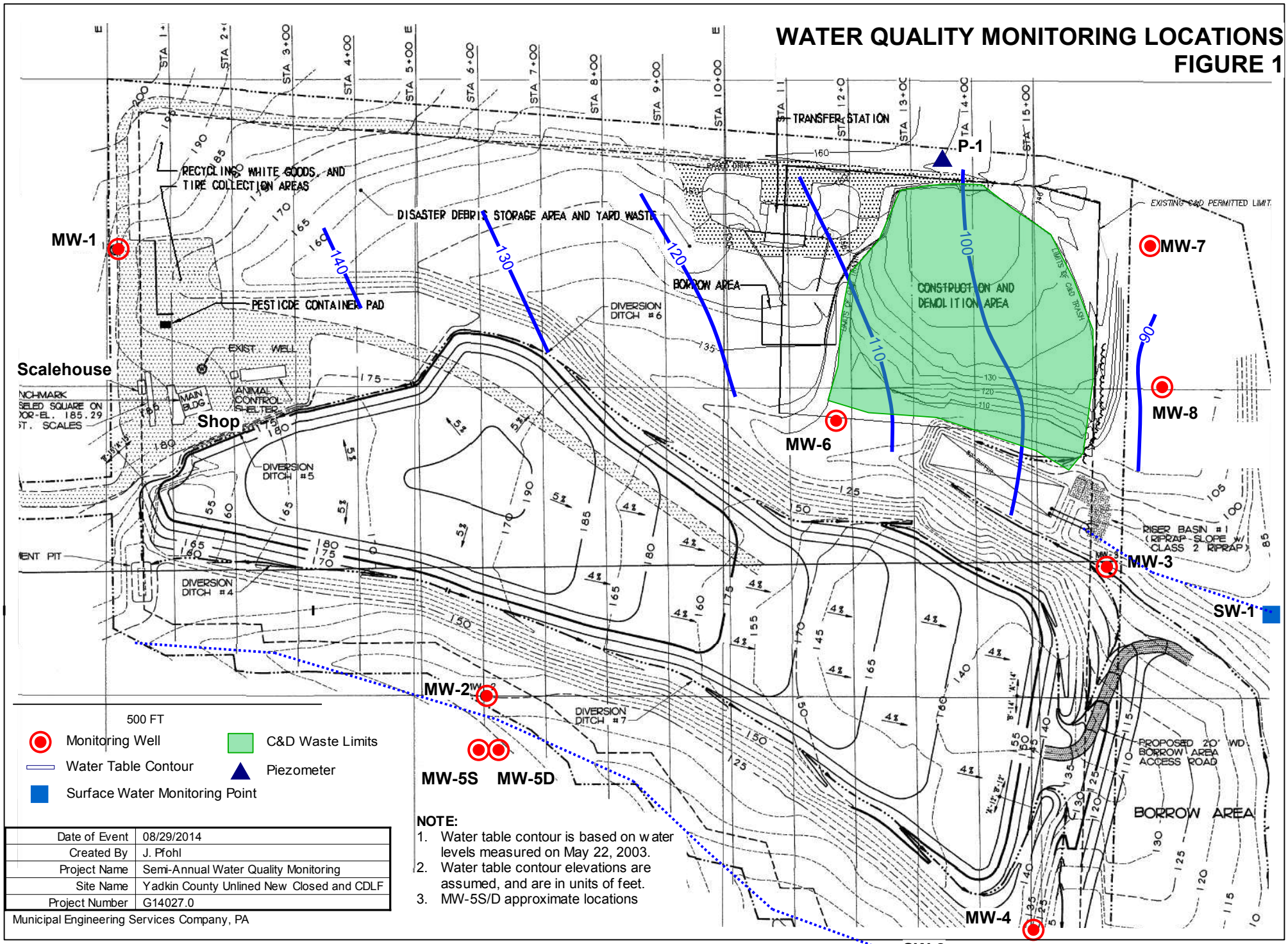
Jonathan Pfohl
Environmental Specialist

Steven R. Gandy, Ph.D, P.E.
Senior Project Manager

Enclosures
cc: Ms. Kathie Jester
Yadkin County

Figures

WATER QUALITY MONITORING LOCATIONS
FIGURE 1



Date of Event	08/29/2014
Created By	J. Pfohl
Project Name	Semi-Annual Water Quality Monitoring
Site Name	Yadkin County Unlined New Closed and CDLF
Project Number	G14027.0

Municipal Engineering Services Company, PA

NOTE:
1. Water table contour is based on water levels measured on May 22, 2003.
2. Water table contour elevations are assumed, and are in units of feet.
3. MW-5S/D approximate locations

Tables

Table 1
Groundwater Monitoring Well Construction Table
August 29, 2014

Monitoring Well	Date Installed	Well Diameter (inches)	Total Well Depth (ft bgs)	Top of Screen Depth (ft bgs)	Screen Length (ft)	Geology of Screened Interval	Top of Casing Elevation (ft amsl)	Ground Elevation (ft amsl)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Latitude	Longitude
MW-1	12/10/91	2	39.0	24	15	Sandy Silt	NA	NA	NA	32.96	36.181425	80.641475
MW-2	12/18/91	2	18.0	3	15	Sandy Silt	NA	NA	NA	11.05	36.179352	80.639692
MW-3	12/12/91	2	20.5	5.5	15	Sandy Silt	NA	NA	NA	8.51	36.179959	80.636438
MW-4	12/16/91	2	20.0	5	15	Sandy Silt	NA	NA	NA	9.81	36.177767	80.636605
MW-5S	8/16/01	2	20.0	5	15	Soil	NA	NA	NA	5.77	36.179047	80.639751
MW-5D	8/17/01	2	71.0	51	20	Rock	NA	NA	NA	11.15	36.179047	80.639751
MW-6	4/22/03	2	21.0	6	15	Soil	NA	NA	NA	16.04	36.180815	80.637854
MW-7	4/22/03	2	45.0	30	15	Soil	NA	NA	NA	39.12	36.181373	80.636025
MW-8	4/22/03	2	45.0	30	15	Soil	NA	NA	NA	40.06	36.180992	80.635990

NA = Not available at this time

Table 2
Field Observations of Monitoring Locations
August 29, 2014

Sample Location	Viable Monitoring Location	Lack of Any Evidence of Tampering	Locked	Hinge/Hasp Operates	Tagged or Labeled	Concrete Surface Pad Effective	Comments
MW-1	Yes	Yes	Yes	Yes	Yes	Yes	
MW-2	Yes	Yes	Yes	Yes	Yes	Yes	Heard water cascade into well
MW-3	Yes	Yes	Yes	Yes	Yes	?	Surface pad covered with soil
MW-4	Yes	Yes	Yes	Yes	Yes	?	Surface pad cracked
MW-5S	Yes	Yes	Yes	Yes	Yes	Yes	
MW-5D	Yes	Yes	Yes	Yes	Yes	Yes	
MW-6	Yes	Yes	Yes	Yes	Yes	Yes	
MW-7	Yes	Yes	Yes	Yes	Yes	Yes	
MW-8	Yes	Yes	Yes	Yes	Yes	Yes	
SW-1	Yes	-	-	-	-	-	Moderate flow & gage height
SW-2	Yes	-	-	-	-	-	Moderate flow & gage height

Any unusual field conditions, observations, or events:

Nothing noteworthy

Table 3
Field Parameter Data Summary
August 29, 2014

Parameter	Water Depth	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity of Metal Sample
Units	**ft (btoc)**	**ft (amsl)**	**ft (amsl)**	**C**	**mV**	**mg/L**	**SU**	**umhos/cm**	**mg/L**	**Visual**
MW-1	32.96	NA	NA	16.1	NR	NR	5.83	40	20	Very
MW-2	11.05	NA	NA	14.2	NR	NR	5.41	10	0	Slight
MW-3	8.51	NA	NA	13.8	NR	NR	6.16	90	40	Slight
MW-4	9.81	NA	NA	14.1	NR	NR	6.01	0	0	Slight
MW-5S	5.77	NA	NA	13.9	NR	NR	6.87	290	130	Slight
MW-5D	11.15	NA	NA	14.7	NR	NR	7.18	310	150	Clear
MW-6	16.04	NA	NA	16.4	NR	NR	5.35	10	0	Clear
MW-7	39.12	NA	NA	15.3	NR	NR	5.75	20	0	Slight
MW-8	40.06	NA	NA	15.5	NR	NR	5.81	10	0	Slight
Minimum	5.77	NA	NA	13.8	NR	NR	5.35	0	0	Clear
Average	19.39	NA	NA	14.9	NR	NR	6.04	87	38	Slight
Maximum	40.06	NA	NA	16.4	NR	NR	7.18	310	150	Very
SW-1	-	-	-	18.8	NR	NR	7.01	190	80	Clear
SW-2	-	-	-	18.9	NR	NR	6.98	210	90	Clear
Minimum	-	-	-	18.8	NR	NR	6.98	190	80	Clear
Average	-	-	-	18.9	NR	NR	7.00	200	85	Clear
Maximum	-	-	-	18.9	NR	NR	7.01	210	90	Clear

NR = No Reading Attempted

Table 4
Sampling and Analysis Summary
August 29, 2014

		App. I		C&D	Field Parameter					
	Reason Not Sampled	VOCs	Total Metals	Tetrahydrofuran	Oxidation Reduction Potential (ORP)	Temperature	Conductivity	Total Dissolved Solids (TDS)	pH	Turbidity
		Lab EPA 8260B	Lab EPA 6000/7000	Lab EPA 8260B	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Visual
MW-1		x	x	x		x	x	x	x	x
MW-2		x	x	x		x	x	x	x	x
MW-3		x	x	x		x	x	x	x	x
MW-4		x	x	x		x	x	x	x	x
MW-5S		x	x	x		x	x	x	x	x
MW-5D		x	x	x		x	x	x	x	x
MW-6		x	x	x		x	x	x	x	x
MW-7		x	x	x		x	x	x	x	x
MW-8		x	x	x		x	x	x	x	x
SW-1		x	x	x		x	x	x	x	x
SW-2		x	x	x		x	x	x	x	x
EB		x	x	x						
FB		x	x	x						

Appendix I = List from current 40 CFR 258

Table 2
Detections in Water Samples above SWSL, GWP, 2L or 2B
August 29, 2014

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	MCL [7]	Preliminary Cause [8]
MW-1	Thallium, total	8/29/14	5.6	ug/L	5.4	5.5			**0.28**	**2**	N & B
MW-1	Chromium, total	8/29/14	25.3	ug/L	5	10	**10**			100	N & B
MW-1	Cobalt, total	8/29/14	12.1	ug/L	5	10			70		
MW-1	Zinc, total	8/29/14	24.5	ug/L	10	10	1000			5000	
MW-1	Copper, total	8/29/14	17.1	ug/L	5	10	1000			1300	
MW-1	Barium, total	8/29/14	206	ug/L	5	100	700			1300	
MW-1	Vanadium, total	8/29/14	41.9	ug/L	5	25			**3.5**		
MW-2	1,2-Dichloroethane	8/29/14	1.3	ug/L	0.12	1	6			5	
MW-2	1,4-Dichlorobenzene	8/29/14	1.9	ug/L	0.33	1	6			75	
MW-2	Zinc, total	8/29/14	318	ug/L	10	10	1000			5000	
MW-2	Cobalt, total	8/29/14	43.6	ug/L	5	10			70		
MW-2	Tetrahydrofuran	8/29/14	102	ug/L	3.1	NE					
MW-2	Barium, total	8/29/14	274	ug/L	5	100	700			1300	
MW-2	1,1-Dichloroethane	8/29/14	5.8	ug/L	0.32	5	6			7	
MW-3	Zinc, total	8/29/14	16.9	ug/L	10	10	1000			5000	
MW-4	Zinc, total	8/29/14	29.8	ug/L	10	10	1000			5000	
MW-4	Vanadium, total	8/29/14	12.9,j	ug/L	5	25			**3.5**		
MW-4	Copper, total	8/29/14	10.5	ug/L	5	10	1000			1300	
MW-6	Zinc, total	8/29/14	16.3	ug/L	10	10	1000			5000	
MW-8	Barium, total	8/29/14	104	ug/L	5	100	700			1300	

[1] Table contains constituents detected at or above SWSL, GWP, 2L, or 2B
[2] MDL = Method Detection Limit
[3] SWSL = Solid Waste Section Reporting Limit
[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard
[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification
[6] GWP = Groundwater Protection Standard
[7] MCL = Primary Drinking Water Standard (not currently applicable for regulatory comparisons)
[8] Preliminary Cause = Refers to a preliminary analysis of the cause and/or source of a detection over the respective 2L/2B Standard.
A definitive source of the detection was not determined as part of this report. Preliminary cause only listed pursuant to instructions
j =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable
N = Natural originating from erosion of natural deposits. Source not anthropogenic.
B = Background as detected upgradient/upstream of facility
L = Leachate
LFG = Landfill Gas
BOLD = Concentration > 2L, 2B or MCL Standard

Appendix A
Laboratory Analysis Reports
Chains of Custody

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

September 11, 2014

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: YADKIN MSWLF
Pace Project No.: 92215647

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

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

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

CERTIFICATIONS

Project: YADKIN MSWLF
Pace Project No.: 92215647

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

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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

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

SAMPLE SUMMARY

Project: YADKIN MSWLF
Pace Project No.: 92215647

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92215647001	**MW-1**	Water	08/29/14 09:00	09/02/14 14:40
92215647002	**MW-2**	Water	08/29/14 13:35	09/02/14 14:40
92215647003	**MW-3**	Water	08/29/14 10:50	09/02/14 14:40
92215647004	**MW-4**	Water	08/29/14 09:35	09/02/14 14:40
92215647005	**MW-5S**	Water	08/29/14 13:15	09/02/14 14:40
92215647006	**MW-5D**	Water	08/29/14 13:00	09/02/14 14:40
92215647007	**MW-6**	Water	08/29/14 12:35	09/02/14 14:40
92215647008	**MW-7**	Water	08/29/14 12:00	09/02/14 14:40
92215647009	**MW-8**	Water	08/29/14 11:30	09/02/14 14:40
92215647010	**SW-1**	Water	08/29/14 10:15	09/02/14 14:40
92215647011	**SW-2**	Water	08/29/14 09:55	09/02/14 14:40
92215647012	**EB**	Water	08/29/14 08:30	09/02/14 14:40
92215647013	**FB**	Water	08/29/14 08:35	09/02/14 14:40
92215647014	**TB**	Water	08/29/14 00:00	09/02/14 14:40

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

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

SAMPLE ANALYTE COUNT

Project: YADKIN MSWLF
Pace Project No.: 92215647

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92215647001	**MW-1**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647002	**MW-2**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647003	**MW-3**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647004	**MW-4**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647005	**MW-5S**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647006	**MW-5D**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647007	**MW-6**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647008	**MW-7**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647009	**MW-8**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647010	**SW-1**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647011	**SW-2**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647012	**EB**	EPA 6010	SH1	15	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647013	**FB**	EPA 6010	SH1	15	PASI-A

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

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

SAMPLE ANALYTE COUNT

Project: YADKIN MSWLF
Pace Project No.: 92215647

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	HVK	1	PASI-A
		EPA 8260	MCK	52	PASI-C
92215647014	**TB**	EPA 8260	MCK	52	PASI-C

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-1 **Lab ID: 92215647001** Collected: 08/29/14 09:00 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 04:28	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:28	7440-38-2	
Barium	**206**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 04:28	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:28	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:28	7440-43-9	
Chromium	**25.3**	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:28	7440-47-3	
Cobalt	**12.1**	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:28	7440-48-4	
Copper	**17.1**	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:28	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:28	7439-92-1	
Nickel	**18.5J**	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 04:28	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:28	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:28	7440-22-4	
Thallium	**5.6**	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 04:28	7440-28-0	
Vanadium	**41.9**	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 04:28	7440-62-2	
Zinc	**24.5**	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:28	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:06	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 16:45	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 16:45	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 16:45	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 16:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 16:45	75-27-4	M1
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 16:45	75-25-2	M1
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 16:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 16:45	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 16:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 16:45	56-23-5	M1
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 16:45	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 16:45	75-00-3	M1
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 16:45	67-66-3	M1
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 16:45	74-87-3	M1
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 16:45	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 16:45	124-48-1	L3,M0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 16:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 16:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 16:45	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 16:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 16:45	110-57-6	M1
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 16:45	75-34-3	M1
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 16:45	107-06-2	M1
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 16:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 16:45	156-59-2	M1
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 16:45	156-60-5	M1

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-1 **Lab ID: 92215647001** Collected: 08/29/14 09:00 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 16:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 16:45	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 16:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 16:45	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 16:45	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 16:45	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 16:45	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 16:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 16:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 16:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 16:45	127-18-4	M1
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 16:45	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 16:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 16:45	71-55-6	M1
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 16:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 16:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 16:45	75-69-4	M1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 16:45	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 16:45	108-05-4	M1
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 16:45	75-01-4	M1
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 16:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/03/14 16:45	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		09/03/14 16:45	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 16:45	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-2 **Lab ID: 92215647002** Collected: 08/29/14 13:35 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 04:38	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:38	7440-38-2	
Barium	**274**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 04:38	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:38	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:38	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:38	7440-47-3	
Cobalt	**43.6**	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:38	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:38	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:38	7439-92-1	
Nickel	**15.6J**	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 04:38	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:38	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:38	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 04:38	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 04:38	7440-62-2	
Zinc	**318**	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:38	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:09	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**14.3J**	ug/L	100	10.0	1		09/03/14 17:01	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 17:01	107-13-1	
Benzene	**0.82J**	ug/L	1.0	0.25	1		09/03/14 17:01	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 17:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 17:01	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 17:01	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 17:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 17:01	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 17:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 17:01	56-23-5	
Chlorobenzene	**1.2J**	ug/L	3.0	0.23	1		09/03/14 17:01	108-90-7	
Chloroethane	**0.55J**	ug/L	10.0	0.54	1		09/03/14 17:01	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 17:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 17:01	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 17:01	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 17:01	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 17:01	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 17:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 17:01	95-50-1	
1,4-Dichlorobenzene	**1.9**	ug/L	1.0	0.33	1		09/03/14 17:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 17:01	110-57-6	
1,1-Dichloroethane	**5.8**	ug/L	5.0	0.32	1		09/03/14 17:01	75-34-3	
1,2-Dichloroethane	**1.3**	ug/L	1.0	0.12	1		09/03/14 17:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 17:01	75-35-4	
cis-1,2-Dichloroethene	**3.8J**	ug/L	5.0	0.19	1		09/03/14 17:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 17:01	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-2 **Lab ID: 92215647002** Collected: 08/29/14 13:35 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	**0.40J**	ug/L	1.0	0.27	1		09/03/14 17:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 17:01	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 17:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 17:01	10061-02-6	
Ethylbenzene	**0.72J**	ug/L	1.0	0.30	1		09/03/14 17:01	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 17:01	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 17:01	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 17:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 17:01	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 17:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 17:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 17:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 17:01	127-18-4	
Tetrahydrofuran	**102**	ug/L	10.0	3.1	1		09/03/14 17:01	109-99-9	
Toluene	**0.51J**	ug/L	1.0	0.26	1		09/03/14 17:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 17:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 17:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 17:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 17:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 17:01	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 17:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 17:01	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 17:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/03/14 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		09/03/14 17:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		09/03/14 17:01	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-3 **Lab ID: 92215647003** Collected: 08/29/14 10:50 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010	Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 04:41	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:41	7440-38-2	
Barium	**14.3J**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 04:41	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:41	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:41	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:41	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:41	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:41	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:41	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 04:41	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:41	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:41	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 04:41	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 04:41	7440-62-2	
Zinc	**16.9**	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:41	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470	Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:11	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 17:17	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 17:17	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 17:17	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 17:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 17:17	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 17:17	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 17:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 17:17	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 17:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 17:17	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 17:17	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 17:17	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 17:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 17:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 17:17	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 17:17	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 17:17	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 17:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 17:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 17:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 17:17	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 17:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 17:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 17:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 17:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 17:17	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-3 **Lab ID: 92215647003** Collected: 08/29/14 10:50 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 17:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 17:17	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 17:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 17:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 17:17	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 17:17	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 17:17	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 17:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 17:17	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 17:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 17:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 17:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 17:17	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 17:17	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 17:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 17:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 17:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 17:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 17:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 17:17	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 17:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 17:17	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 17:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/03/14 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		09/03/14 17:17	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 17:17	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-4 **Lab ID: 92215647004** Collected: 08/29/14 09:35 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 04:44	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:44	7440-38-2	
Barium	**50.3J**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 04:44	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:44	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:44	7440-43-9	
Chromium	**8.8J**	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:44	7440-47-3	
Cobalt	**7.4J**	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:44	7440-48-4	
Copper	**10.5**	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:44	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:44	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 04:44	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:44	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:44	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 04:44	7440-28-0	
Vanadium	**12.9J**	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 04:44	7440-62-2	
Zinc	**29.8**	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:44	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:14	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 17:33	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 17:33	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 17:33	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 17:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 17:33	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 17:33	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 17:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 17:33	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 17:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 17:33	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 17:33	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 17:33	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 17:33	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 17:33	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 17:33	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 17:33	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 17:33	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 17:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 17:33	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 17:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 17:33	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 17:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 17:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 17:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 17:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 17:33	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-4 **Lab ID: 92215647004** Collected: 08/29/14 09:35 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 17:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 17:33	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 17:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 17:33	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 17:33	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 17:33	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 17:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 17:33	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 17:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 17:33	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 17:33	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 17:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 17:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 17:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 17:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 17:33	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 17:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 17:33	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 17:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/03/14 17:33	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		09/03/14 17:33	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 17:33	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-5S **Lab ID: 92215647005** Collected: 08/29/14 13:15 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 04:47	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:47	7440-38-2	
Barium	**63.7J**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 04:47	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:47	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:47	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:47	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:47	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:47	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:47	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 04:47	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:47	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:47	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 04:47	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 04:47	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:47	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:22	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 17:49	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 17:49	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 17:49	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 17:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 17:49	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 17:49	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 17:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 17:49	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 17:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 17:49	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 17:49	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 17:49	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 17:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 17:49	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 17:49	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 17:49	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 17:49	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 17:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 17:49	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 17:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 17:49	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 17:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 17:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 17:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 17:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 17:49	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-5S **Lab ID: 92215647005** Collected: 08/29/14 13:15 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 17:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 17:49	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 17:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 17:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 17:49	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 17:49	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 17:49	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 17:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 17:49	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 17:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 17:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 17:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 17:49	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 17:49	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 17:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 17:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 17:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 17:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 17:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 17:49	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 17:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 17:49	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 17:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/03/14 17:49	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		09/03/14 17:49	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 17:49	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-5D **Lab ID: 92215647006** Collected: 08/29/14 13:00 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 04:50	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:50	7440-38-2	
Barium	**6.2J**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 04:50	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:50	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:50	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:50	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:50	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:50	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:50	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 04:50	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:50	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:50	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 04:50	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 04:50	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:50	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:24	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 18:05	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 18:05	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 18:05	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 18:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 18:05	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 18:05	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 18:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 18:05	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 18:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 18:05	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 18:05	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 18:05	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 18:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 18:05	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 18:05	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 18:05	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 18:05	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 18:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 18:05	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 18:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 18:05	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 18:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 18:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 18:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 18:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 18:05	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-5D **Lab ID: 92215647006** Collected: 08/29/14 13:00 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 18:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 18:05	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 18:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 18:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 18:05	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 18:05	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 18:05	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 18:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 18:05	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 18:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 18:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 18:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 18:05	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 18:05	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 18:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 18:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 18:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 18:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 18:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 18:05	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 18:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 18:05	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 18:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		09/03/14 18:05	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		09/03/14 18:05	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 18:05	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-6 **Lab ID: 92215647007** Collected: 08/29/14 12:35 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 04:54	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:54	7440-38-2	
Barium	**88.8J**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 04:54	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:54	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 04:54	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:54	7440-47-3	
Cobalt	**5.1J**	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:54	7440-48-4	
Copper	**6.2J**	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:54	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:54	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 04:54	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:54	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 04:54	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 04:54	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 04:54	7440-62-2	
Zinc	**16.3**	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 04:54	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:27	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 18:21	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 18:21	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 18:21	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 18:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 18:21	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 18:21	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 18:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 18:21	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 18:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 18:21	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 18:21	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 18:21	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 18:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 18:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 18:21	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 18:21	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 18:21	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 18:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 18:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 18:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 18:21	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 18:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 18:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 18:21	75-35-4	
cis-1,2-Dichloroethene	**0.21J**	ug/L	5.0	0.19	1		09/03/14 18:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 18:21	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-6 **Lab ID: 92215647007** Collected: 08/29/14 12:35 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 18:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 18:21	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 18:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 18:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 18:21	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 18:21	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 18:21	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 18:21	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 18:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 18:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 18:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 18:21	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 18:21	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 18:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 18:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 18:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 18:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 18:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 18:21	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 18:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 18:21	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 18:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/03/14 18:21	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1		09/03/14 18:21	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 18:21	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-7 **Lab ID: 92215647008** Collected: 08/29/14 12:00 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 05:06	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:06	7440-38-2	
Barium	**58.2J**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 05:06	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:06	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:06	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:06	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:06	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:06	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:06	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 05:06	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:06	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:06	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 05:06	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 05:06	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:06	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:30	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 18:37	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 18:37	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 18:37	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 18:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 18:37	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 18:37	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 18:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 18:37	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 18:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 18:37	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 18:37	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 18:37	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 18:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 18:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 18:37	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 18:37	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 18:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 18:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 18:37	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 18:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 18:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 18:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 18:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 18:37	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-7 **Lab ID: 92215647008** Collected: 08/29/14 12:00 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 18:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 18:37	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 18:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 18:37	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 18:37	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 18:37	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 18:37	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 18:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 18:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 18:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 18:37	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 18:37	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 18:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 18:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 18:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 18:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 18:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 18:37	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 18:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 18:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 18:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/03/14 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		09/03/14 18:37	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 18:37	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-8 **Lab ID: 92215647009** Collected: 08/29/14 11:30 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 05:09	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:09	7440-38-2	
Barium	**104**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 05:09	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:09	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:09	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:09	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:09	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:09	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:09	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 05:09	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:09	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:09	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 05:09	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 05:09	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:32	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 18:53	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 18:53	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 18:53	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 18:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 18:53	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 18:53	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 18:53	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 18:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 18:53	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 18:53	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 18:53	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 18:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 18:53	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 18:53	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 18:53	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 18:53	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 18:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 18:53	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 18:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 18:53	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 18:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 18:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 18:53	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: MW-8 **Lab ID: 92215647009** Collected: 08/29/14 11:30 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 18:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 18:53	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 18:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 18:53	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 18:53	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 18:53	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 18:53	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 18:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 18:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 18:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 18:53	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 18:53	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 18:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 18:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 18:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 18:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 18:53	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 18:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 18:53	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 18:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/03/14 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		09/03/14 18:53	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 18:53	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: SW-1 **Lab ID: 92215647010** Collected: 08/29/14 10:15 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 05:12	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:12	7440-38-2	
Barium	**33.8J**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 05:12	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:12	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:12	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:12	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:12	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:12	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:12	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 05:12	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:12	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:12	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 05:12	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 05:12	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:12	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:35	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 19:09	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 19:09	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 19:09	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 19:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 19:09	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 19:09	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 19:09	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 19:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 19:09	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 19:09	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 19:09	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 19:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 19:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 19:09	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 19:09	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 19:09	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 19:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 19:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 19:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 19:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 19:09	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: SW-1 **Lab ID: 92215647010** Collected: 08/29/14 10:15 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 19:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 19:09	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 19:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 19:09	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 19:09	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 19:09	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 19:09	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 19:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 19:09	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 19:09	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 19:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 19:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 19:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 19:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 19:09	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 19:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 19:09	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 19:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/03/14 19:09	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		09/03/14 19:09	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		09/03/14 19:09	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: SW-2 **Lab ID: 92215647011** Collected: 08/29/14 09:55 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 05:15	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:15	7440-38-2	
Barium	**39.3J**	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 05:15	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:15	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:15	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:15	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:15	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:15	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:15	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 05:15	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:15	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:15	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 05:15	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 05:15	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:38	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	10.0	1		09/03/14 19:24	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 19:24	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 19:24	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 19:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 19:24	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 19:24	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 19:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 19:24	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 19:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 19:24	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 19:24	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 19:24	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 19:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 19:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 19:24	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 19:24	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 19:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 19:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 19:24	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 19:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 19:24	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 19:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 19:24	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: SW-2 **Lab ID: 92215647011** Collected: 08/29/14 09:55 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 19:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 19:24	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 19:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 19:24	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 19:24	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 19:24	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 19:24	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 19:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 19:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 19:24	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 19:24	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 19:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 19:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 19:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 19:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 19:24	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 19:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 19:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 19:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/03/14 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		09/03/14 19:24	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 19:24	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: EB **Lab ID: 92215647012** Collected: 08/29/14 08:30 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 05:18	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:18	7440-38-2	
Barium	ND	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 05:18	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:18	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:18	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:18	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:18	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:18	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:18	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 05:18	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:18	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:18	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 05:18	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 05:18	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:40	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**15.3J**	ug/L	100	10.0	1		09/03/14 19:40	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 19:40	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 19:40	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 19:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 19:40	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 19:40	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 19:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 19:40	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 19:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 19:40	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 19:40	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 19:40	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 19:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 19:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 19:40	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 19:40	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 19:40	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 19:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 19:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 19:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 19:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 19:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 19:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 19:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 19:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 19:40	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: EB **Lab ID: 92215647012** Collected: 08/29/14 08:30 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 19:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 19:40	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 19:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 19:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 19:40	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 19:40	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 19:40	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 19:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 19:40	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 19:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 19:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 19:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 19:40	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 19:40	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 19:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 19:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 19:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 19:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 19:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 19:40	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 19:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 19:40	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 19:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/03/14 19:40	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		09/03/14 19:40	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 19:40	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: FB **Lab ID: 92215647013** Collected: 08/29/14 08:35 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	09/03/14 15:15	09/11/14 05:22	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:22	7440-38-2	
Barium	ND	ug/L	100	5.0	1	09/03/14 15:15	09/11/14 05:22	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:22	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	09/03/14 15:15	09/11/14 05:22	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:22	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:22	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:22	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:22	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	09/03/14 15:15	09/11/14 05:22	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:22	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	09/03/14 15:15	09/11/14 05:22	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	09/03/14 15:15	09/11/14 05:22	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	09/03/14 15:15	09/11/14 05:22	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	09/03/14 15:15	09/11/14 05:22	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/03/14 11:35	09/03/14 15:43	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**14.4J**	ug/L	100	10.0	1		09/03/14 19:56	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 19:56	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 19:56	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 19:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 19:56	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 19:56	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 19:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 19:56	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 19:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 19:56	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 19:56	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 19:56	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 19:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 19:56	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 19:56	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 19:56	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 19:56	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 19:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 19:56	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 19:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 19:56	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 19:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 19:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 19:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 19:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 19:56	156-60-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: FB **Lab ID: 92215647013** Collected: 08/29/14 08:35 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 19:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 19:56	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 19:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 19:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 19:56	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 19:56	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 19:56	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 19:56	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 19:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 19:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 19:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 19:56	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 19:56	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 19:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 19:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 19:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 19:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 19:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 19:56	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 19:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 19:56	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 19:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/03/14 19:56	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		09/03/14 19:56	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 19:56	2037-26-5	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: TB **Lab ID: 92215647014** Collected: 08/29/14 00:00 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**10.5J**	ug/L	100	10.0	1		09/03/14 20:12	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		09/03/14 20:12	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		09/03/14 20:12	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		09/03/14 20:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		09/03/14 20:12	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		09/03/14 20:12	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		09/03/14 20:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		09/03/14 20:12	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		09/03/14 20:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		09/03/14 20:12	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		09/03/14 20:12	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		09/03/14 20:12	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		09/03/14 20:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		09/03/14 20:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.0	1		09/03/14 20:12	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		09/03/14 20:12	124-48-1	L3
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		09/03/14 20:12	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		09/03/14 20:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		09/03/14 20:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		09/03/14 20:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		09/03/14 20:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		09/03/14 20:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		09/03/14 20:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		09/03/14 20:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		09/03/14 20:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		09/03/14 20:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/14 20:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		09/03/14 20:12	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		09/03/14 20:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		09/03/14 20:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		09/03/14 20:12	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		09/03/14 20:12	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		09/03/14 20:12	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		09/03/14 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		09/03/14 20:12	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		09/03/14 20:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		09/03/14 20:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		09/03/14 20:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		09/03/14 20:12	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		09/03/14 20:12	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		09/03/14 20:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		09/03/14 20:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		09/03/14 20:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		09/03/14 20:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		09/03/14 20:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		09/03/14 20:12	96-18-4	

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

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

ANALYTICAL RESULTS

Project: YADKIN MSWLF
Pace Project No.: 92215647

Sample: TB **Lab ID: 92215647014** Collected: 08/29/14 00:00 Received: 09/02/14 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Vinyl acetate	ND	ug/L	50.0	0.35	1		09/03/14 20:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		09/03/14 20:12	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		09/03/14 20:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/03/14 20:12	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		09/03/14 20:12	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/03/14 20:12	2037-26-5	

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

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

QUALITY CONTROL DATA

Project: YADKIN MSWLF
Pace Project No.: 92215647

QC Batch: MERP/7040 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92215647001, 92215647002, 92215647003, 92215647004, 92215647005, 92215647006, 92215647007, 92215647008, 92215647009, 92215647010, 92215647011, 92215647012, 92215647013

METHOD BLANK: 1276949 Matrix: Water
Associated Lab Samples: 92215647001, 92215647002, 92215647003, 92215647004, 92215647005, 92215647006, 92215647007, 92215647008, 92215647009, 92215647010, 92215647011, 92215647012, 92215647013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/03/14 14:50	

LABORATORY CONTROL SAMPLE: 1276950

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1276951 1276952

Parameter	Units	92215574009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.0	1.9	82	74	75-125	9	25	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

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

QUALITY CONTROL DATA

Project: YADKIN MSWLF
Pace Project No.: 92215647

QC Batch: MPRP/16815 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92215647001, 92215647002, 92215647003, 92215647004, 92215647005, 92215647006, 92215647007, 92215647008, 92215647009, 92215647010, 92215647011, 92215647012, 92215647013

METHOD BLANK: 1277314 | Matrix: Water
Associated Lab Samples: 92215647001, 92215647002, 92215647003, 92215647004, 92215647005, 92215647006, 92215647007, 92215647008, 92215647009, 92215647010, 92215647011, 92215647012, 92215647013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	09/11/14 04:13	
Arsenic	ug/L	ND	10.0	09/11/14 04:13	
Barium	ug/L	ND	100	09/11/14 04:13	
Beryllium	ug/L	ND	1.0	09/11/14 04:13	
Cadmium	ug/L	ND	1.0	09/11/14 04:13	
Chromium	ug/L	ND	10.0	09/11/14 04:13	
Cobalt	ug/L	ND	10.0	09/11/14 04:13	
Copper	ug/L	ND	10.0	09/11/14 04:13	
Lead	ug/L	ND	10.0	09/11/14 04:13	
Nickel	ug/L	ND	50.0	09/11/14 04:13	
Selenium	ug/L	ND	10.0	09/11/14 04:13	
Silver	ug/L	ND	10.0	09/11/14 04:13	
Thallium	ug/L	ND	5.5	09/11/14 04:13	
Vanadium	ug/L	ND	25.0	09/11/14 04:13	
Zinc	ug/L	ND	10.0	09/11/14 04:13	

LABORATORY CONTROL SAMPLE: 1277315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	482	96	80-120	
Arsenic	ug/L	500	481	96	80-120	
Barium	ug/L	500	500	100	80-120	
Beryllium	ug/L	500	491	98	80-120	
Cadmium	ug/L	500	485	97	80-120	
Chromium	ug/L	500	491	98	80-120	
Cobalt	ug/L	500	495	99	80-120	
Copper	ug/L	500	498	100	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	490	98	80-120	
Selenium	ug/L	500	480	96	80-120	
Silver	ug/L	250	236	94	80-120	
Thallium	ug/L	500	477	95	80-120	
Vanadium	ug/L	500	504	101	80-120	
Zinc	ug/L	500	485	97	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

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

QUALITY CONTROL DATA

Project: YADKIN MSWLF
Pace Project No.: 92215647

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1277316 1277317

Parameter	Units	92215647001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	473	472	95	94	75-125	0	25	
Arsenic	ug/L	ND	500	500	486	481	97	96	75-125	1	25	
Barium	ug/L	206	500	500	699	674	99	94	75-125	4	25	
Beryllium	ug/L	ND	500	500	496	492	99	98	75-125	1	25	
Cadmium	ug/L	ND	500	500	480	476	96	95	75-125	1	25	
Chromium	ug/L	25.3	500	500	516	508	98	97	75-125	2	25	
Cobalt	ug/L	12.1	500	500	504	500	98	98	75-125	1	25	
Copper	ug/L	17.1	500	500	524	518	101	100	75-125	1	25	
Lead	ug/L	ND	500	500	483	482	96	96	75-125	0	25	
Nickel	ug/L	18.5J	500	500	503	497	97	96	75-125	1	25	
Selenium	ug/L	ND	500	500	486	480	97	96	75-125	1	25	
Silver	ug/L	ND	250	250	236	234	94	94	75-125	1	25	
Thallium	ug/L	5.6	500	500	466	469	92	93	75-125	1	25	
Vanadium	ug/L	41.9	500	500	546	537	101	99	75-125	2	25	
Zinc	ug/L	24.5	500	500	511	501	97	95	75-125	2	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

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

QUALITY CONTROL DATA

Project: YADKIN MSWLF
Pace Project No.: 92215647

QC Batch: MSV/28179 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92215647001, 92215647002, 92215647003, 92215647004, 92215647005, 92215647006, 92215647007, 92215647008, 92215647009, 92215647010, 92215647011, 92215647012, 92215647013, 92215647014

METHOD BLANK: 1277255 Matrix: Water
Associated Lab Samples: 92215647001, 92215647002, 92215647003, 92215647004, 92215647005, 92215647006, 92215647007, 92215647008, 92215647009, 92215647010, 92215647011, 92215647012, 92215647013, 92215647014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	09/03/14 15:58	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/03/14 15:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	09/03/14 15:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/03/14 15:58	
1,1-Dichloroethane	ug/L	ND	5.0	09/03/14 15:58	
1,1-Dichloroethene	ug/L	ND	5.0	09/03/14 15:58	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/03/14 15:58	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	09/03/14 15:58	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/03/14 15:58	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/03/14 15:58	
1,2-Dichloroethane	ug/L	ND	1.0	09/03/14 15:58	
1,2-Dichloropropane	ug/L	ND	1.0	09/03/14 15:58	
1,3-Dichloropropane	ug/L	ND	1.0	09/03/14 15:58	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/03/14 15:58	
2-Butanone (MEK)	ug/L	ND	100	09/03/14 15:58	
2-Hexanone	ug/L	ND	50.0	09/03/14 15:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	09/03/14 15:58	
Acetone	ug/L	ND	100	09/03/14 15:58	
Acrylonitrile	ug/L	ND	200	09/03/14 15:58	
Benzene	ug/L	ND	1.0	09/03/14 15:58	
Bromochloromethane	ug/L	ND	3.0	09/03/14 15:58	
Bromodichloromethane	ug/L	ND	1.0	09/03/14 15:58	
Bromoform	ug/L	ND	3.0	09/03/14 15:58	
Bromomethane	ug/L	ND	10.0	09/03/14 15:58	
Carbon disulfide	ug/L	ND	100	09/03/14 15:58	
Carbon tetrachloride	ug/L	ND	1.0	09/03/14 15:58	
Chlorobenzene	ug/L	ND	3.0	09/03/14 15:58	
Chloroethane	ug/L	ND	10.0	09/03/14 15:58	
Chloroform	ug/L	ND	5.0	09/03/14 15:58	
Chloromethane	ug/L	ND	1.0	09/03/14 15:58	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/03/14 15:58	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/03/14 15:58	
Dibromochloromethane	ug/L	ND	3.0	09/03/14 15:58	
Dibromomethane	ug/L	ND	10.0	09/03/14 15:58	
Ethylbenzene	ug/L	ND	1.0	09/03/14 15:58	
Iodomethane	ug/L	ND	10.0	09/03/14 15:58	
Methylene Chloride	ug/L	ND	1.0	09/03/14 15:58	
Styrene	ug/L	ND	1.0	09/03/14 15:58	
Tetrachloroethene	ug/L	ND	1.0	09/03/14 15:58	
Tetrahydrofuran	ug/L	ND	10.0	09/03/14 15:58	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

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

QUALITY CONTROL DATA

Project: YADKIN MSWLF
Pace Project No.: 92215647

METHOD BLANK: 1277255 Matrix: Water

Associated Lab Samples: 92215647001, 92215647002, 92215647003, 92215647004, 92215647005, 92215647006, 92215647007, 92215647008, 92215647009, 92215647010, 92215647011, 92215647012, 92215647013, 92215647014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	09/03/14 15:58	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/03/14 15:58	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/03/14 15:58	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	09/03/14 15:58	
Trichloroethene	ug/L	ND	1.0	09/03/14 15:58	
Trichlorofluoromethane	ug/L	ND	1.0	09/03/14 15:58	
Vinyl acetate	ug/L	ND	50.0	09/03/14 15:58	
Vinyl chloride	ug/L	ND	1.0	09/03/14 15:58	
Xylene (Total)	ug/L	ND	5.0	09/03/14 15:58	
1,2-Dichloroethane-d4 (S)	%	119	70-130	09/03/14 15:58	
4-Bromofluorobenzene (S)	%	99	70-130	09/03/14 15:58	
Toluene-d8 (S)	%	102	70-130	09/03/14 15:58	

LABORATORY CONTROL SAMPLE: 1277256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.8	108	80-125	
1,1,1-Trichloroethane	ug/L	50	57.9	116	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	79-124	
1,1,2-Trichloroethane	ug/L	50	54.1	108	85-125	
1,1-Dichloroethane	ug/L	50	57.2	114	73-126	
1,1-Dichloroethene	ug/L	50	56.3	113	66-135	
1,2,3-Trichloropropane	ug/L	50	53.9	108	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	55.7	111	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	83-124	
1,2-Dichlorobenzene	ug/L	50	51.5	103	80-133	
1,2-Dichloroethane	ug/L	50	58.9	118	67-128	
1,2-Dichloropropane	ug/L	50	52.2	104	75-132	
1,3-Dichloropropane	ug/L	50	52.9	106	76-131	
1,4-Dichlorobenzene	ug/L	50	52.4	105	78-130	
2-Butanone (MEK)	ug/L	100	118	118	61-144	
2-Hexanone	ug/L	100	112	112	68-143	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	72-135	
Acetone	ug/L	100	117	117	48-146	
Acrylonitrile	ug/L	250	271	109	40-160	
Benzene	ug/L	50	50.2	100	80-125	
Bromochloromethane	ug/L	50	54.0	108	71-125	
Bromodichloromethane	ug/L	50	62.0	124	78-124	
Bromoform	ug/L	50	60.5	121	71-128	
Bromomethane	ug/L	50	47.8	96	40-160	
Carbon disulfide	ug/L	50	49.7J	99	50-160	
Carbon tetrachloride	ug/L	50	59.5	119	69-131	
Chlorobenzene	ug/L	50	51.0	102	81-122	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

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

QUALITY CONTROL DATA

Project: YADKIN MSWLF
Pace Project No.: 92215647

LABORATORY CONTROL SAMPLE: 1277256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	50	54.5	109	39-148	
Chloroform	ug/L	50	60.2	120	73-127	
Chloromethane	ug/L	50	58.4	117	44-146	
cis-1,2-Dichloroethene	ug/L	50	58.3	117	74-124	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	72-132	
Dibromochloromethane	ug/L	50	63.1	126	78-125	L0
Dibromomethane	ug/L	50	53.4	107	82-120	
Ethylbenzene	ug/L	50	52.3	105	79-121	
Iodomethane	ug/L	100	80.6	81	39-154	
Methylene Chloride	ug/L	50	57.3	115	64-133	
Styrene	ug/L	50	53.6	107	84-126	
Tetrachloroethene	ug/L	50	55.3	111	78-122	
Tetrahydrofuran	ug/L	500	564	113	69-148	
Toluene	ug/L	50	51.3	103	80-121	
trans-1,2-Dichloroethene	ug/L	50	57.8	116	71-127	
trans-1,3-Dichloropropene	ug/L	50	57.0	114	69-141	
trans-1,4-Dichloro-2-butene	ug/L	50	67.4J	135	40-160	
Trichloroethene	ug/L	50	53.3	107	78-122	
Trichlorofluoromethane	ug/L	50	57.2	114	53-137	
Vinyl acetate	ug/L	100	149	149	40-160	
Vinyl chloride	ug/L	50	56.8	114	58-137	
Xylene (Total)	ug/L	150	155	103	81-126	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1277257 1277258

Parameter	Units	92215647001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	24.5	23.1	122	116	70-130	6	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	27.8	26.3	139	132	70-130	5	30	M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	23.4	22.4	117	112	70-130	4	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.2	23.1	121	115	70-130	5	30	
1,1-Dichloroethane	ug/L	ND	20	20	26.7	25.2	133	126	70-130	5	30	M1
1,1-Dichloroethene	ug/L	ND	20	20	27.1	25.1	135	126	70-166	8	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	23.5	23.4	118	117	70-130	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	25.2	24.0	126	120	70-130	5	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	24.6	23.0	123	115	70-130	7	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	24.1	24.0	121	120	70-130	0	30	
1,2-Dichloroethane	ug/L	ND	20	20	27.4	25.9	137	130	70-130	5	30	M1
1,2-Dichloropropane	ug/L	ND	20	20	23.8	22.3	119	111	70-130	6	30	
1,3-Dichloropropane	ug/L	ND	20	20	24.3	22.2	122	111	70-130	9	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	24.3	23.6	121	118	70-130	3	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

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

QUALITY CONTROL DATA

Project: YADKIN MSWLF
Pace Project No.: 92215647

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1277257 1277258

Parameter	Units	92215647001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	40	40	47.7J	45.2J	119	113	70-130	5	30	
2-Hexanone	ug/L	ND	40	40	49.0J	45.7J	122	114	70-130	7	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	49.4J	47.2J	123	118	70-130	5	30	
Acetone	ug/L	ND	40	40	48.8J	47.0J	122	118	70-130	4	30	
Acrylonitrile	ug/L	ND	100	100	114J	113J	114	113	70-130	1	30	
Benzene	ug/L	ND	20	20	23.4	22.2	117	111	70-148	6	30	
Bromochloromethane	ug/L	ND	20	20	25.2	23.3	126	117	70-130	8	30	
Bromodichloromethane	ug/L	ND	20	20	27.8	26.4	139	132	70-130	5	30	M1
Bromoform	ug/L	ND	20	20	26.4	24.8	132	124	70-130	6	30	M1
Bromomethane	ug/L	ND	20	20	22.0	22.0	110	110	70-130	0	30	
Carbon disulfide	ug/L	ND	20	20	24.7J	22.0J	123	110	70-130	11	30	
Carbon tetrachloride	ug/L	ND	20	20	27.8	26.6	139	133	70-130	5	30	M1
Chlorobenzene	ug/L	ND	20	20	24.3	22.4	121	112	70-146	8	30	
Chloroethane	ug/L	ND	20	20	26.8	24.8	134	124	70-130	8	30	M1
Chloroform	ug/L	ND	20	20	28.8	27.0	144	135	70-130	6	30	M1
Chloromethane	ug/L	ND	20	20	26.9	25.8	134	129	70-130	4	30	M1
cis-1,2-Dichloroethene	ug/L	ND	20	20	27.1	25.3	136	126	70-130	7	30	M1
cis-1,3-Dichloropropene	ug/L	ND	20	20	25.0	23.6	125	118	70-130	6	30	
Dibromochloromethane	ug/L	ND	20	20	28.6	26.3	143	132	70-130	8	30	M0
Dibromomethane	ug/L	ND	20	20	24.1	22.7	121	113	70-130	6	30	
Ethylbenzene	ug/L	ND	20	20	24.3	23.6	121	118	70-130	3	30	
Iodomethane	ug/L	ND	40	40	36.2	35.5	90	89	70-130	2	30	
Methylene Chloride	ug/L	ND	20	20	24.0	22.2	120	111	70-130	8	30	
Styrene	ug/L	ND	20	20	24.4	23.3	122	116	70-130	5	30	
Tetrachloroethene	ug/L	ND	20	20	26.5	25.7	133	128	70-130	3	30	M1
Tetrahydrofuran	ug/L	ND	200	200	250	246	125	123	70-130	2	30	
Toluene	ug/L	ND	20	20	23.9	22.7	120	114	70-155	5	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	27.4	25.9	137	129	70-130	6	30	M1
trans-1,3-Dichloropropene	ug/L	ND	20	20	25.6	24.4	128	122	70-130	5	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	26.6J	27.8J	133	139	70-130	5	30	M1
Trichloroethene	ug/L	ND	20	20	25.1	23.7	126	118	69-151	6	30	
Trichlorofluoromethane	ug/L	ND	20	20	27.9	26.1	139	129	70-130	7	30	M1
Vinyl acetate	ug/L	ND	40	40	65.9	63.7	165	159	70-130	3	30	M1
Vinyl chloride	ug/L	ND	20	20	27.4	25.5	137	127	70-130	7	30	M1
1,2-Dichloroethane-d4 (S)	%						113	113	70-130			
4-Bromofluorobenzene (S)	%						99	99	70-130			
Toluene-d8 (S)	%						101	102	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

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

QUALIFIERS

Project: YADKIN MSWLF
Pace Project No.: 92215647

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YADKIN MSWLF
Pace Project No.: 92215647

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92215647001	**MW-1**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647002	**MW-2**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647003	**MW-3**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647004	**MW-4**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647005	**MW-5S**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647006	**MW-5D**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647007	**MW-6**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647008	**MW-7**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647009	**MW-8**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647010	**SW-1**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647011	**SW-2**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647012	**EB**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647013	**FB**	EPA 3010	MPRP/16815	EPA 6010	ICP/15178
92215647001	**MW-1**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647002	**MW-2**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647003	**MW-3**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647004	**MW-4**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647005	**MW-5S**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647006	**MW-5D**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647007	**MW-6**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647008	**MW-7**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647009	**MW-8**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647010	**SW-1**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647011	**SW-2**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647012	**EB**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647013	**FB**	EPA 7470	MERP/7040	EPA 7470	MERC/6774
92215647001	**MW-1**	EPA 8260	MSV/28179		
92215647002	**MW-2**	EPA 8260	MSV/28179		
92215647003	**MW-3**	EPA 8260	MSV/28179		
92215647004	**MW-4**	EPA 8260	MSV/28179		
92215647005	**MW-5S**	EPA 8260	MSV/28179		
92215647006	**MW-5D**	EPA 8260	MSV/28179		
92215647007	**MW-6**	EPA 8260	MSV/28179		
92215647008	**MW-7**	EPA 8260	MSV/28179		
92215647009	**MW-8**	EPA 8260	MSV/28179		
92215647010	**SW-1**	EPA 8260	MSV/28179		
92215647011	**SW-2**	EPA 8260	MSV/28179		
92215647012	**EB**	EPA 8260	MSV/28179		
92215647013	**FB**	EPA 8260	MSV/28179		
92215647014	**TB**	EPA 8260	MSV/28179		

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: April 07. 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.14**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Engineering Services

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 (T1401) **Type of Ice:** (Wet) Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 2.7 °C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JMW 9/2/14

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:_____	☐Yes ☒No ☐N/A	12. No time or date on any vial or bottle
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13. sample 1=4.5 2=3.0 3=6.0 4=6.0 5=4.5 6=4.5 7=4.0 8=3.0 9=2.5
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☒No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16. page 2 #2
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	JJB	Date:	9/2/14
SRF Review:	KH	Date:	9/3/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO# : 92215647

92215647

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Municipal Engineering Services	Report To:	Jonathan Pfohl	Attention:	Municipal Engineering Services
Address:	P.O. Box 97	Copy To:		Company Name:	
Garner, NC 27529				Address:	
Email To:	jpfohl@mesco.com	Purchase Order No.		Pace Quote Reference:	
Phone:	919-772-5393 Fax:	Client Project ID:	Yadkin MSWLF	Pace Project Manager:	Kevin Godwin
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	2103-15

Regulatory Agency
State / Location
North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs- App I	Metals-App I	Tetrahydrofuran									Provide 1 liter of DI water
																			N	N	N	N	N	N	N	N	N	N	N	9221561
1	MW-1	WT	G			8/29/14	9:00		4			1	3						X	X	X									001
2	MW-2	WT	G				1:35		4			1	3						X	X	X									002
3	MW-3	WT	G				10:50		4			1	3						X	X	X									003
4	MW-4	WT	G				9:35		4			1	3						X	X	X									004
5	MW-5S	WT	G				1:15		4			1	3						X	X	X									005
6	MW-5D	WT	G				1:00		4			1	3						X	X	X									006
7	MW-6	WT	G				12:35		4			1	3						X	X	X									007
8	MW-7	WT	G				12:00		4			1	3						X	X	X									008
9	MW-8	WT	G				11:30		4			1	3						X	X	X									009
10	SW-1	WT	G				10:15		4			1	3						X	X	X									010
11	SW-2	WT	G				9:55		4			1	3						X	X	X									011
12	EB	WT	G				8:30		4			1	3						X	X	X									DN

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		9-2-14	1041		9-2-14	1041				
		9-2-14	1446	Jacelyn Wilsolace	9-2-14	1440	2.7	Y	N	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jonathan Pfohl		
SIGNATURE of SAMPLER:		DATE Signed:	9/1/14

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Municipal Engineering Services	Report To:	Jonathan Pfohl	Attention:	Municipal Engineering Services
Address:	P.O. Box 97	Copy To:		Company Name:	
Garner, NC 27529				Address:	
Email To:	jpfohl@mesco.com	Purchase Order No.		Pace Quote Reference:	
Phone: 919-772-5393	Fax:	Client Project ID:	Yadkin MSWLF	Pace Project Manager:	Kevin Godwin
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	

Regulatory Agency	
State / Location	
	North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to le	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs- App I	Metals-App I	Tetrahydrofuran											
																			N	N	N	N	N	N	N	N	N	N	N	N	
1	FB	WT	G			8/29	8:35		4			1	3						X	X	X										
2	TB	WT	G		PACE	8:11			3				3						X		X										
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

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

9325647
OB
DIF

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		9-2-14	1041		9-2-14	1041				
	Pace	9-2-14	1440	Jaclyn Wilson / Pace	9-2-14	1440	2.7	Y	N	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jonathan Pfohl		
SIGNATURE of SAMPLER:		DATE Signed:	9/1/14

Appendix B
Field Sampling Parameter Data Sheet(s)

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Yadkin County New Closed MSWLF & Closed C&D Landfill

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Comments	Total Depth	Water Quality Parameters: ~~DO (mg/L)~~	~~DO (mg/L)~~	~~ORP~~	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 gas in well airspace (ppm)
MW-1	8/29/14	9:00	32.96	I	3	DB	Y		39.5				5.83	16.1	40	20	VT	0
MW-2		1:35	11.05	I	2	DB	Y		18.5				5.41	14.2	10	0	ST	0
MW-3		10:50	8.51	I	2	PB	Y	weeps	21				6.16	13.8	90	40	ST	0
MW-4		9:35	9.81	I	2	DB	Y Barely	Needs thinge	20.5				6.01	14.1	0	0	ST	0
MW-5S		1:15	5.77	I	5	P&B	N		20				6.87	13.9	290	130	ST	0
MW-5D		1:00	11.15	I	30	P&B	Y		71				7.18	14.7	310	150	C	NR
MW-6		12:35	16.04	I	4	P&B	N Almost		21				5.35	16.4	10	0	C	0
MW-7		12:00	39.12	I	2	PB	Y		45				5.75	15.3	20	0	ST	0
MW-8		11:30	40.06	I	2	DB	Y		45				5.81	15.5	10	0	ST	0
SW-1		10:15	–	I	-	D.p	-	Low	-				7.01	18.8	190	80	C	-
SW-2		9:55	–	I	-	D.p	-	Low	-				6.98	18.9	210	90	C	-
P-1		NS		WLR only														
~~SW-By MW~~-2					-		-		-									-
EB		8:30																
FB		8:35																
TB	PACE Filled																	

Comments

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

NR=No Reading Attempted, NS=No Sample Obtained