Semi-Annual Water Quality Monitoring Report with Corrective Action Update

Prepared for

Wayne County Active C&D and Closed MSWLF
Dudley, North Carolina

August 2012

Permit Number: 96-01
MESCO Project Number: G12016.0

Submittal Date: December 20, 2012

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

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 Co., PA

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)
Wayne County Active C&D and Closed MSWLF	460-B South Landfill Road Dudley, NC 28333	96-01	.1600	August 21-23, 2012 w/ September 14, 2012 (Confirmation Event)

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) Exempt during this event
☐ 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.

D. Mark Durway, L.G. Geologist (919) 772-5393

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

D. Mark Durway 12/20/12

Signature Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

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

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License No. C-0281

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS
SOLID WASTE MANAGEMENT

Municipal Services Engineering Company, P.A.

SITE PLANNING/SUBDIVISIONS
SUBSURFACE UTILITY ENGINEERING (SUE)

December 20, 2012

Ms. Jaclynne Drummond
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 with Corrective Action Update***
Wayne County Active C&D and Closed MSWLF (Dudley)
Permit No. 96-01
MESCO Project No. G12016.0

Dear Ms. Drummond:

Introduction

The Wayne County landfill (Permit #96-01) is located at 460 S Landfill Road (SR 1129), Dudley, Wayne County, North Carolina. A topographic map showing the location of the site is included as **Figure 1.**

The Wayne County unlined closed Municipal Solid Waste Landfill (MSWLF) and active Construction and Demolition (C&D) Landfill located in Dudley NC, currently operating under Permit #96-01 is required to submit semi-annual compliance reports as a condition of 15A NCAC 13B.1630. This report documents the quality of the ground and surface waters during this monitoring event performed on August 21-23, 2012. In response to suspected false positive detections of two semi-volatile organic compounds (SVOC) in sample MW-4 a verification sample was collected on September 14, 2012. Laboratory analytical results indicate that benzene continues to be detected in MW-2 in concentrations slightly above the NC Groundwater 2L Standard. Corrective action to remediate volatile organic compounds (VOCs) as detected in groundwater via monitored natural attenuation (MNA) is planned to continue.

As specified within Rule 15A NCAC 13B.1632(i) and the SWS Environmental Monitoring Report Form, this report contains facility background information, sampling procedures, field and laboratory results, corrective action update, groundwater and surface water characterization, and findings. Detections compared to their respective standards tables, a hydrogeologic properties table, a monitoring network field observations table, field parameter data results, mna paramater table, potentiometric map, quality assurance/quality control data, and laboratory analytical data results with chain-of-custody (C-O-C) are included.

Background

Prior to operating as a C&D landfill the site operated as a Municipal Solid Waste (MSW) unlined sanitary landfill that consisted of two units. The first unit (Unit 1) was closed prior to October 1991 with a 24 inch final soil cover. The second unit (Unit 2) was closed with a low permeability cohesive cap and erosive layer prior to December 31, 1998 in accordance with the T*ransition Plan*. The C&D landfill is operating on top of the Unit 1 MSW landfill. The separate active Subtitle D Lined MSWLF (permit #96-06), located adjacent to the C&D landfill across the unnamed tributary of Edward's Branch, was monitored in conjunction with this site but reported separately.

Water quality at the landfill has been monitored at least semi-annually since 1991. Current data was compared to data compiled since 1994. Municipal Engineering Services Company, P.A. (MESCO) submitted an *Assessment and Corrective Action* (*ACM*) [DIN8821] report dated August 30, 2007 which was approved by the NC Solid Waste Section (SWS) on November 1, 2007 [DIN3328]. MESCO then developed a *Corrective Action Plan* (*CAP*) [DIN8821] on October 22, 2009 which was approved by the SWS on October 23, 2009 [DIN8822]. Groundwater remediation using monitored natural attenuation (MNA) was initiated on August 6, 2009 and has continued on a semi-annual basis. Following establishment of the two year MNA baseline, MESCO completed a *Corrective Action Evaluation Report* (*CAER*) [DIN 13923] on May 10, 2011. The *CAER* was reviewed and the proposed modifications of MNA parameters and frequency was approved by the SWS [DIN 16967]. The *Water Quality Sampling and Analysis Plan* (SAP) was revised on August 24, 2012 and subsequently approved by the SWS. Groundwater remediation through MNA per the *CAP* is expected to continue until the SWS authorizes a change.

Sampling Procedure

MESCO performed this sampling event utilizing portable monitoring methodology in accordance with the new SAP. The new SAP entails continued semi-annual water quality monitoring which includes annual assessment monitoring and annual MNA monitoring. Keeping with the historical schedule this event consists of only assessment monitoring (Appendix II) and the next February event will be Appendix I plus any Appendix II detections with select MNA performance parameters. Water samples were collected from monitoring locations designated in the SAP with the exception of SW-2 and SW-3, which were dry. Water quality monitoring was performed on ten wells (MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10 and MW-11), one background well (MW-1) and one surface water point (SW-1). Quality control measures implemented during this event included quantification of an equipment blank (EB), field blank (FB) and travel blank (TB). A supplemental surface water sample (SW-By_MW-2) was collected from the western tributary of Edward's Branch directly downgradient of MW-2. Data from two surface water locations from the Subtitle D Lined SAP are presented because this local discharge feature is shared by both permits, they are named SW-2 (shared) and SW-3 (shared) in this report. Monitoring locations are depicted on the potentiometric map, included as **Figure 2**.

Monitoring location integrity was visually evaluated with no deficiency identified and inspection documentation is provided in **Table 5.** 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 utilized to adequately purge the wells 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.

Field Parameter Data

Stabilized field parameters were recorded during purging which included pH, specific conductance, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), total dissolved solids (TDS), and turbidity. A summary of the field parameter data is presented in **Table 6** and the field sampling data sheet is enclosed in **Appendix B**.

Laboratory Results

Pace Analytical Laboratory (PACE) of Huntersville and Asheville, NC and Environmental Conservation Laboratories (ENCO) of Cary NC performed the laboratory analysis of groundwater samples for the constituents listed in 40 CFR Appendix II. The surface water samples were analyzed for the parameters listed in 40 CFR Appendix I. A sampling and analysis table summarizing the locations, constituents, and methods is presented on **Table 1**. Laboratory results and C-O-Cs are contained in **Appendix A**.

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 2** summarizes Appendix I 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) or the applicable Class C North Carolina Surface Water Standards (2B).

Quality Control Samples

Total thallium was detected in concentrations above the GWP Standard in quality control blanks (EB and FB). Thallium was not detected in any other samples which indicates the data set has not been influenced by false positives or high bias attributed to field and/or laboratory artifact contamination.

Groundwater Samples

Total arsenic in MW-2 and total vanadium in MW-5 were detected in concentrations exceeding their respective 2L and GWP Standards during this event. However, dissolved arsenic and dissolved vanadium, which are more applicable to regulatory compliance comparison were not detected in levels above their respective Standards.

The VOC benzene (2.4 ug/L) continues to be detected above the 2L Standard (1.0 ug/L) in MW-2. A site map depicting the lone VOC concentration that exceeded the 2L Standard during this event is presented as **Figure 2.**

Targeted appendix II exclusive analytes were not detected in concentrations above the SWSL or 2L Standards (**Table 3**). The unprecedented non-quantifiable SVOCs detected in MW-4 during the original event were absent during the verification event three weeks later strengthening the assertion that the detections are not related to landfill activities but rather false positives.

Surface Water Samples

Constituents were not detected in surface water samples in concentrations above the SWSL or in exceedance of the established 2B Standards. Supplemental surface water sample SW-By_MW-2 collected approximately 166 feet downgradient of MW-2 continues to lack quantifiable detections.

Corrective Action Update

Groundwater remediation measures using MNA continues to be implemented at the facility. Semi-annual MNA monitoring of MW-2, MW-8 and background well MW-1 was initiated on August 6, 2009 and was consistently performed for the full suite of SWS recommended parameters for six consecutive semi-annual events. In keeping with the newly approved SAP MNA monitoring frequency has now been reduced to an annual basis therefore was not performed during this event. MNA monitoring is planned to be performed annually or bi-annually (constituent specific) during the winter events which are typically conducted in February.

Groundwater and Surface Water Characterization

A potentiometric map of the uppermost aquifer created from groundwater elevation data collected during this event is included as **Figure 2.** Groundwater flow rates and directions were calculated based on collected data and are included in **Table 4**. Groundwater generally generally flows southwesterly towards Edward's Branch ranging from approximately 1 foot/year (MW-7) to 494 feet/year (MW-3).with an average rate of 86 feet/year The calculated flow directions and gradients are consistent with historical observations. Streams located within the facility boundaries were visually observed at normal seasonal flow, volume and slight turbidity.

Findings

The laboratory results indicate that the groundwater quality has been compromised in a small portion of the uppermost aquifer south of the landfill, which is monitored by MW-2. The groundwater sample collected from MW-2 contained aromatic VOCs, including benzene slightly above its 2L Standard. However, benzene concentrations remain within its lowest historically identified quartile [ND(<0.21 ug/L) to 5 ug/L] and an increasing trend is not evident (**Figure 3**). The horizontal extent of impact downgradient of MW-2 appears to have not impacted the adjacent local discharge feature as evidenced by the lack of detections in samples SW-By_MW-2 and SW-1.

Groundwater quality monitored by MW-8, located hydraulically upgradient of waste, has improved as evidenced by the lack of contaminant detections in levels exceeding the 2L Standard during the past 5 years. 1,4-dichlorobenzene (lone contaminant of concern detected in MW-8 above 2L since *ACM*) has not been detected in a concentration above its current 2L Standard since August 2007 (**Figure 3**). Samples collected from MW-9 and MW-10, installed to delineate the impact beyond MW-8, continue to lack detections.

The source of the low level appendix II SVOC detections in MW-4 is likely not landfill activities but rather more likely false positives since they were absent in the verification sample.

Total vanadium detections were not widespread across the site during this event but rather only detected in a non-quantifiable level in sample MW-5. Dissolved vanadium was absent from MW-5 indicating the low levels of vanadium are in the immobile form and the source is attributed to natural sediment entrained in the sample likely artificially elevated through the preservation/acidification process. In response to these concerns raised by the SWS in [DIN 16967] a plan to investigate vanadium in a non-quantifiable concentration as detected in MW-5 during this event is unwarranted at this time.

Closing

Water quality monitoring will continue at this facility with the next event tentatively scheduled for February 2013. 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 mdurway@mesco.com.

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

Jonathan Pfohl
Environmental Specialist

D. Mark Durway, L.G.
Geologist

Enclosures

cc: Mr. Tim Rogers
Wayne County

Ms. Christine Ritter
Solid Waste Section

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

NORTH CAROLINA LICENSED SEAL 0875 GEOLOGIST D. MARK DURWAY

Jonathan Pfohl
Environmental Specialist

D. Mark Durway, L.G.
Geologist

Enclosures

cc: Mr. Tim Rogers
Wayne County

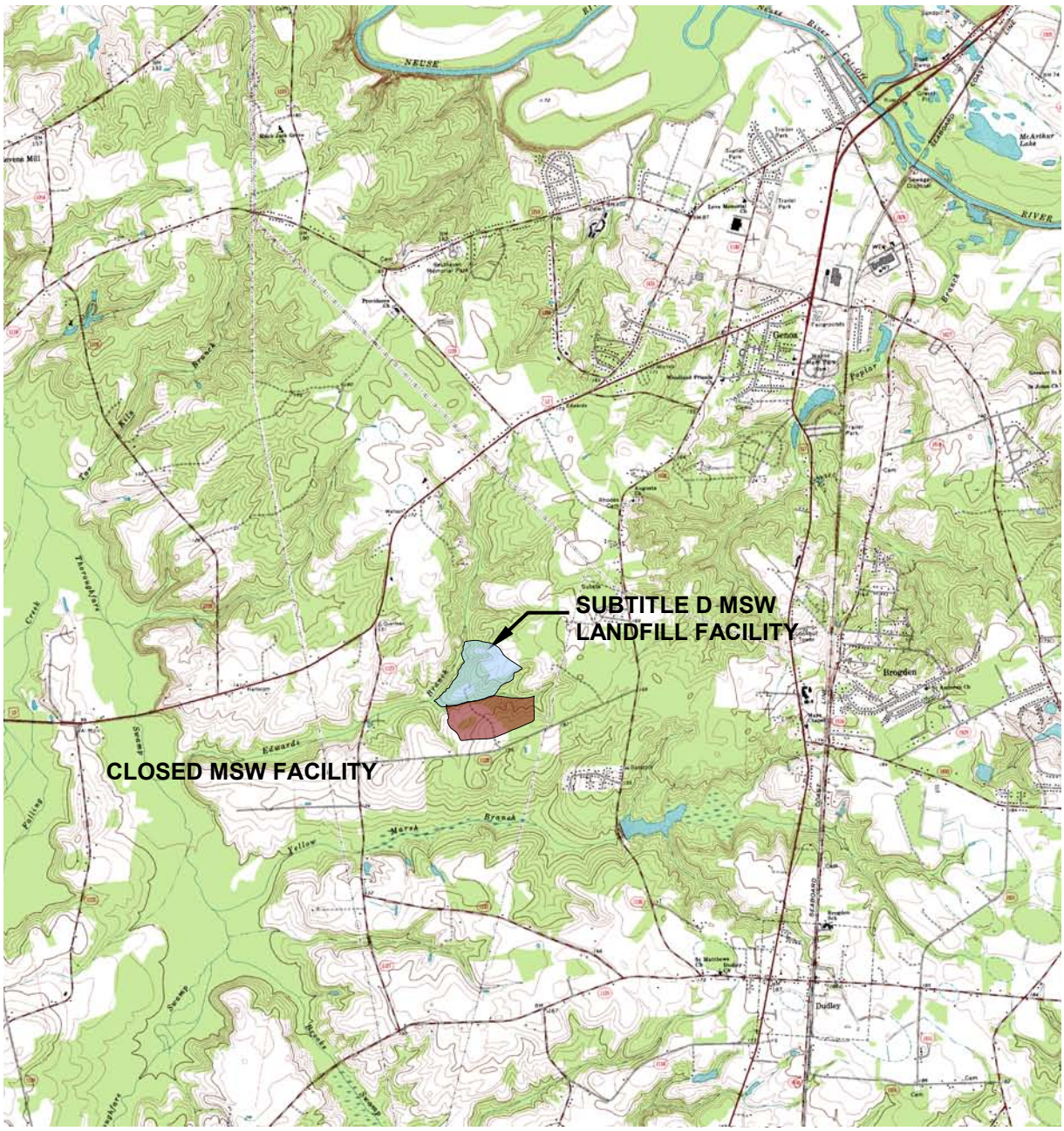
Ms. Christine Ritter
Solid Waste Section

Figures

Topographic Map with Site Location

Wayne County Landfill North Carolina (Dudley)

N



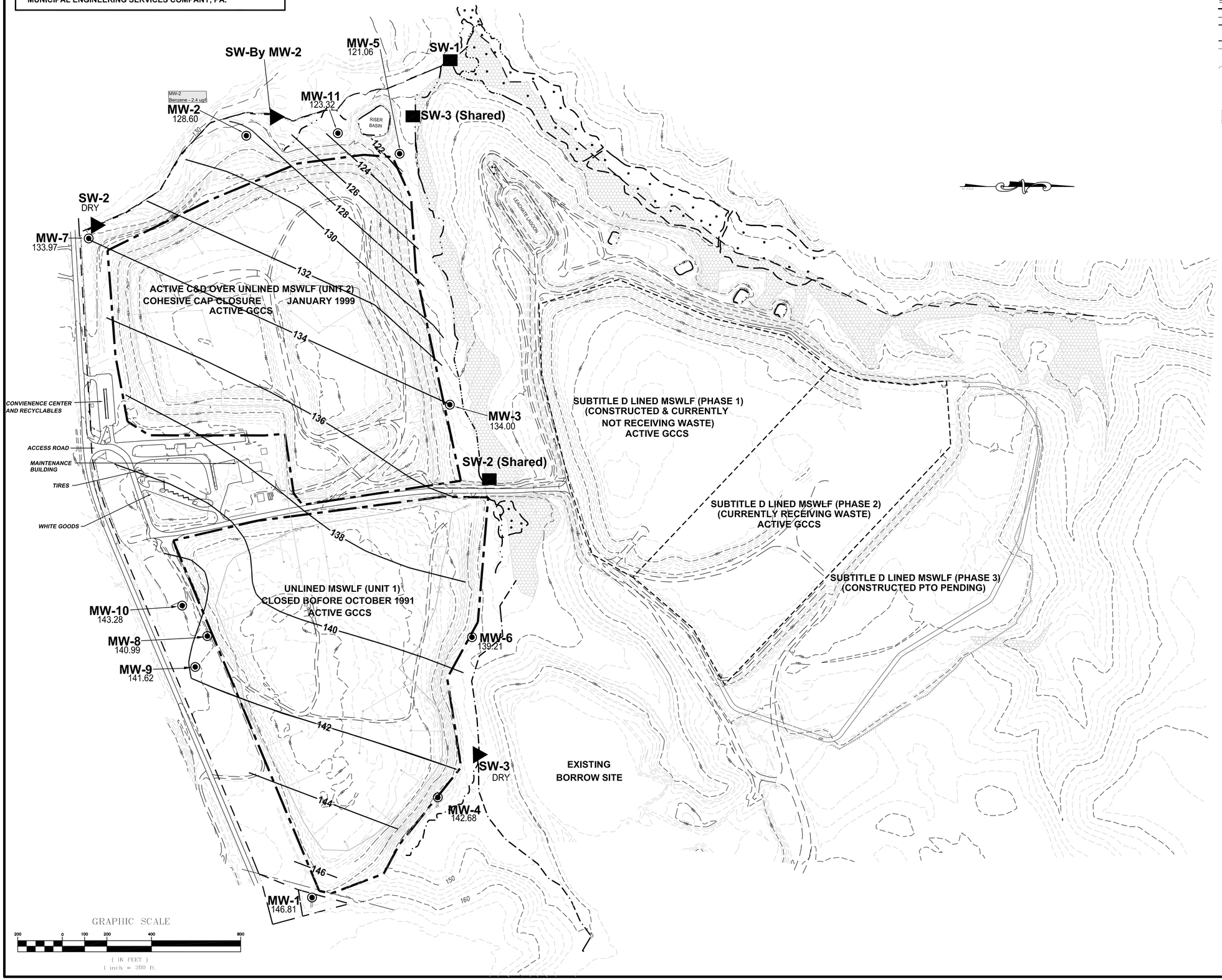
460 B South Landfill Rd
Dudley, NC 28333
Lat:35-17-19.1338
Long:-78-04-17.2971
Northing:561283.19
Easting:2277068.62

Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

1 0 1 MILE

FIGURE 1

TOPOGRAPHY IS FROM AERIAL PHOTOGRAPHY FLOWN AND A TOP0GRAPHIC MAP WAS PROVIDED BY DARREL S. MILLER, PLS ON 8/17/2007 AND SUPPLEMENTED WITH FIELD SURVEYS BY MUNICIPAL ENGINEERING SERVICES COMPANY, PA.



LEGEND

- EXISTING TOPOGRAPHIC CONTOURS
- PROPERTY LINE
- EXISITING UNPAVED ROAD
- EXISTING CREEK, STREAM, ETC.
- EXISTING DIVERSION DITCHES
- CLOSED MSWLF ESTIMATED EXTENT OF WASTE
- LINED MSWLF PHASE LIMITS
- EXISTING CHAINLINK FENCE
- TREE LINE (AERIAL MAPPING)
- TREE LINE (SURVEYED)
- WETLANDS
- MONITORING WELL
- SURFACE WATER MONITOIRNG POINT (LINED MSWLF)
- SURFACE WATER MONITOIRNG POINT (CLOSED MSWLF)
- 122 POTENIOMETRIC GROUNDWATER CONTOUR

Groundwater Elevations
August 21-22, 2012

WELL ID.	TOP OF PIPE CASING ELEVATION (FT AMSL)	DEPTH TO WATER (FT)	GROUND WATER ELEVATION (FT AMSL)
MW-1	166.33	19.52	146.81
MW-2	134.52	5.92	128.60
MW-3	134.81	0.81	134.00
MW-4	150.20	7.52	142.68
MW-5	124.78	3.72	121.06
MW-6	145.53	6.32	139.21
MW-7	143.59	9.62	133.97
MW-8	161.88	20.89	140.99
MW-9	162.96	21.34	141.62
MW-10	162.90	19.62	143.28
MW-11	127.23	3.91	123.32

FIGURE 2

Municipal Engineering Services Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
LICENSE NUMBER: C-0281

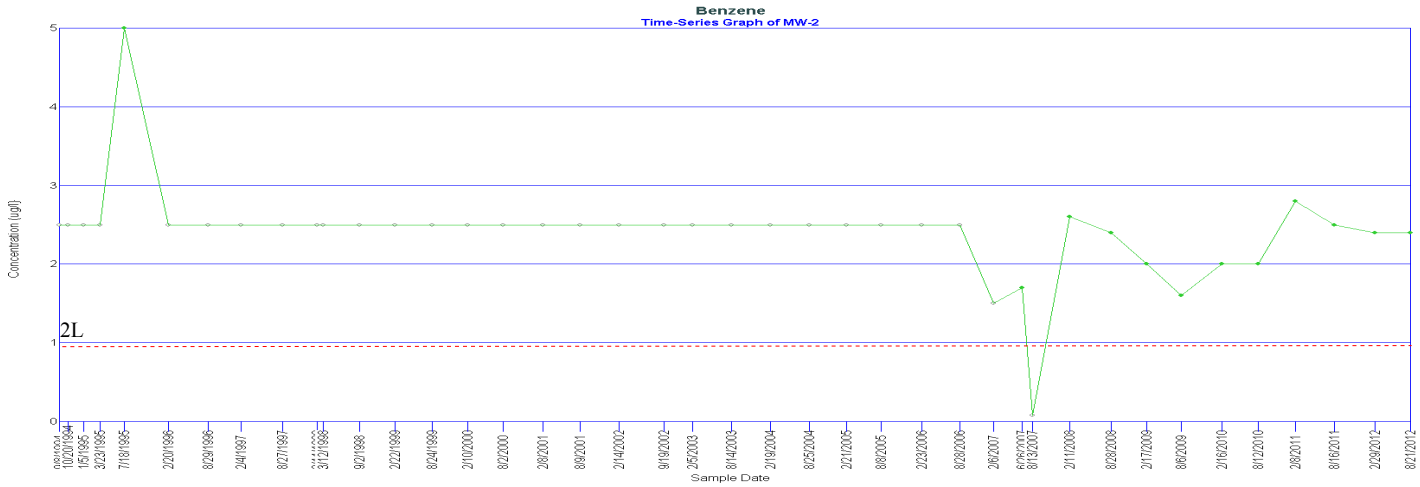
ACTIVE C&D AND CLOSED MSW LANDFILL FACILITY (DUDLEY)
WAYNE COUNTY
NORTH CAROLINA

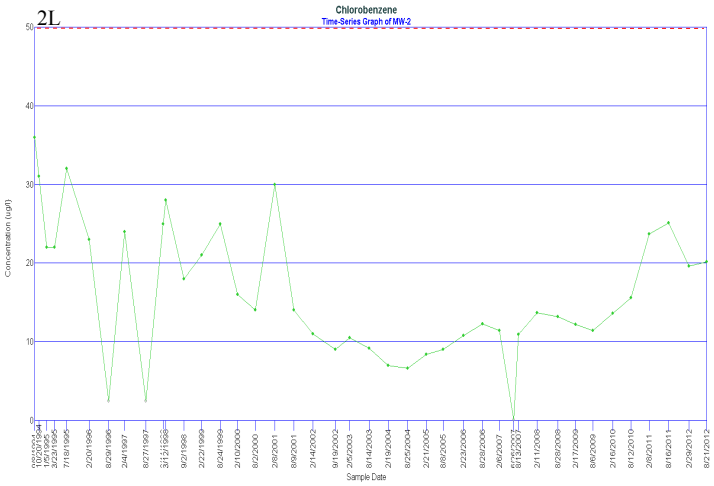
DATE	BY	REV.	DESCRIPTION

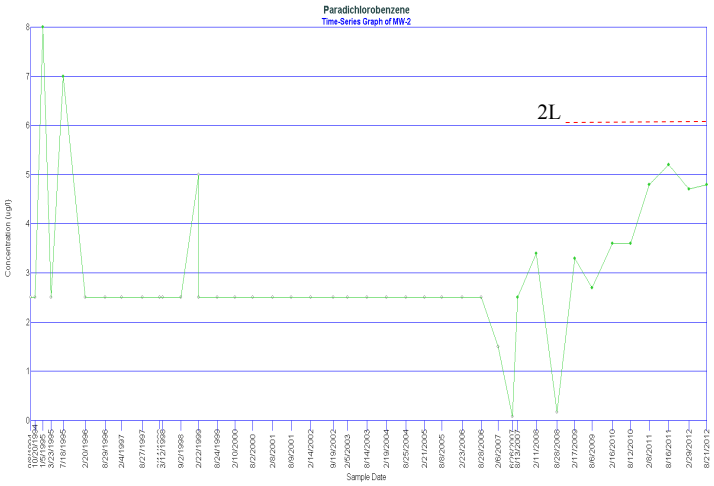
POTENTIOMETRIC MAP OF UPPERMOST AQUIFER w/ DETECTIONS ABOVE 2L STANDARDS

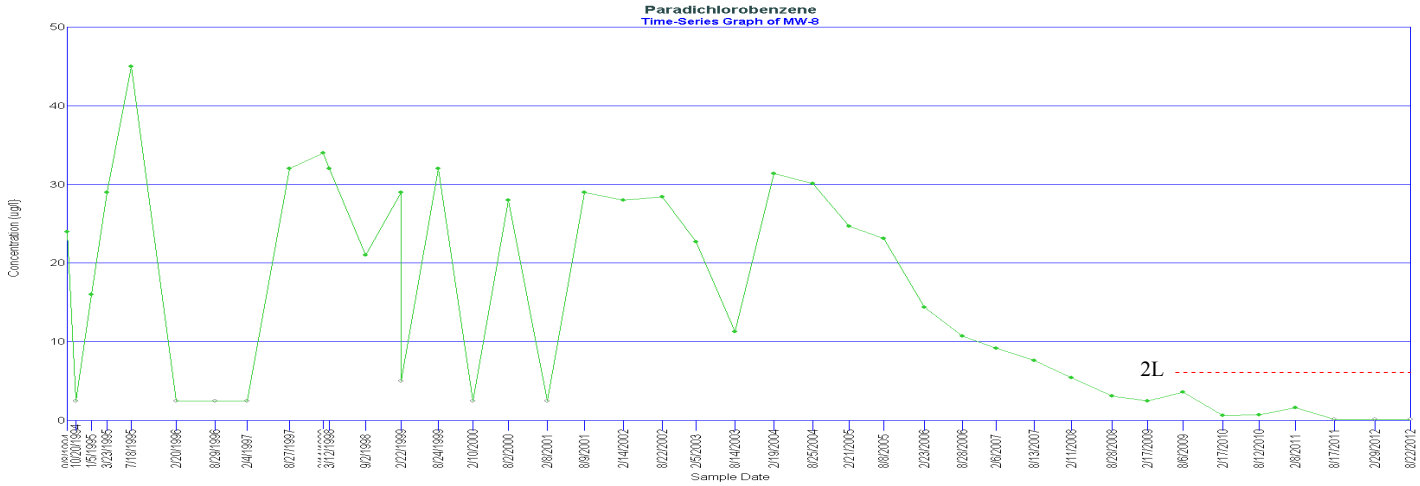
SCALE: 1" = 200'
DATE: 12/5/12
DRWN. BY: J. PFOHL
CHKD. BY: M. DURWAY
PROJECT NUMBER G12016.0
DRAWING NO. FIGURE 2
SHEET NO. 1 OF 1

Figure 3
Time-Series Graphs of Select Constituents
August 21-22, 2012









Non-Detects Shown at ½ of Method Detection Level.

Tables

Table 1
Sampling and Analysis Summary
August 21-23, 2012
September 14, 2012 (Verification Event)

		App. I		Field Parameter							App. II								
	Reason Not Sampled	VOCs	Total Metals	Dissolved Oxygen (DO)	Oxidation Reduction Potential (ORP)	Temperature	Conductivity	Total Dissolved Solids (TDS)	pH	Turbidity	VOCs	Total Metals	Dissolved Metals	Pesticides	Herbicides-Chlorinated	Polychlorinated biphenyl (PCB)	Semivolatile Organics (SVOCs)	Total Cyanide	Sulfide
		Lab EPA 8260B	Lab EPA 6000/7000	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Lab EPA 8260B	Lab EPA 6000/7000	Lab EPA 6000/7000	Lab EPA 8081B	Lab SW8151A	Lab EPA 8082A	Lab EPA 8270D	Lab EPA 9014	Lab SM18 4500-S D
MW-1				x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
MW-2				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MW-3				x	x	x	x	x	x		x	x		x	x	x	x	x	x
MW-4				x	x	x	x	x	x		x	x		x	x	x	V	x	x
MW-5				x	x	x	x	x	x		x	x	x	x	x	x	x	x	x
MW-6				x	x	x	x	x	x		x	x		x	x	x	x	x	x
MW-7				x	x	x	x	x	x		x	x		x	x	x	x	x	x
MW-8				x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
MW-9				x	x	x	x	x	x		x	x		x	x	x	x	x	x
MW-10				x	x	x	x	x	x		x	x		x	x	x	x	x	x
MW-11				x	x	x	x	x	x		x	x		x	x	x	x	x	x
SW-1		x	x	x	x	x	x	x	x										
SW-2	Dry																		
SW-2 (shared)		x	x																
SW-ByMW-2				x	x	x	x	x	x		x								
SW-3 (shared)		x	x	x	x	x	x	x	x										
SW-3	Dry																		
EB											x	x					x	x	x
FB											x	x							
TB											x								

App I & II = Appendix I & II List from current 40 CFR 258

V = Analyzed during verification event September 14, 2012

Table 2
Detections in Water Samples above Established SWSL, GWP, 2L or 2B (Appendix I)
August 21-23, 2012

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause [7]
MW-2	1,4-Dichlorobenzene	8/21/12	4.8	ug/L	0.33	1	6				
MW-2	**Arsenic, total**	**8/21/12**	**17**	**ug/L**	**5**	**10**	**10**			**7**	**N**
MW-2	Arsenic, Dissolved	8/21/12	ND <2.7	ug/L	2.7	10	10				
MW-2	Barium, total	8/21/12	191	ug/L	5	100	700				
MW-2	Barium, Dissolved	8/21/12	110	ug/L	0.2	5	700				
MW-2	**Benzene**	**8/21/12**	**2.4**	**ug/L**	**0.25**	**1**	**1**			**1.4**	**L &/or LFG**
MW-2	Chlorobenzene	8/21/12	20.2	ug/L	0.23	3	50				
MW-4	Zinc, total	8/21/12	13.1	ug/L	10	10	1050				
MW-5	Vanadium, total	8/21/12	6.5	ug/L	5	25			3.5	3	
MW-5	Vanadium, Dissolved	8/21/12	ND <0.2	ug/L	0.2	25			3.5		
MW-6	Barium, total	8/21/12	167	ug/L	5	100	700				
MW-10	Barium, total	8/22/12	192	ug/L	5	100	700				
MW-11	Barium, total	8/21/12	511	ug/L	5	100	700				
MW-11	Cadmium, total	8/21/12	1	ug/L	1	1	1.75				
SW-2	Zinc, total	8/22/12	10.9	ug/L	10	10		50			
EB	Thallium, total	8/23/12	7.6	ug/L	5.4	5.5			0.28	7.32	
FB	Thallium, total	8/23/12	7.4	ug/L	5.4	5.5			0.28	7.12	

1 Table contains Appendix I constituents detected at or above established 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] 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.
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 from erosion of natural deposits
L = Leachate
LFG = Landfill Gas
BOLD = Concentration > 2L, or 2B Standard

Table 3
Detections Above MDL (Appendix II Exclusive)
August 21-22, 2012
September 14, 2012 Verification Event

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance Amount	Preliminary Cause [7]
MW-2	3 & 4-Methylphenol	08/21/12	2.9 j	ug/L	1.6	10	NE		NE		
MW-2	1,3-Dichlorobenzene	08/21/12	0.35 j	ug/L	0.24	5	170				
MW-2	Cyanide, total	08/21/12	9.8 j	ug/L	5	10	70				
MW-4	Bis(2-ethylhexyl)phthalate	08/21/12	2 j	ug/L	1.7	15	NE		NE		
MW-4	Bis(2-ethylhexyl)phthalate	09/14/12	ND <1.7	ug/L	1.7	15	NE		NE		
MW-4	Diethylphthalate	08/21/12	3.8 j	ug/L	2.1	6000	5000				
MW-4	Diethylphthalate	09/14/12	ND <2.1	ug/L	2.1	6000	5000				

1 Table contains detected App II exclusive constituents (Not found on App I list)

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard

[5] GWP = Groundwater Protection Standard

[7] 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.

j =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content.

BOLD = Concentration >2L, or 2B Standard

Table 4
Hydrologic Properties at Monitoring Well Locations
August 21-22, 2012

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient (ft/ft)	Linear Velocity (ft/yr)	Flow Direction	Depth to Groundwater (ft btoc)	Groundwater Potentiometric Elevation (ft amsl)
MW-1	5.40E-04	20	0.007	19	N73W	19.52	146.81
MW-2	3.00E-04	20	0.070	108	N54W	5.92	128.60
MW-3	6.40E-03	20	0.015	494	N66W	0.81	134.00
MW-4	9.90E-04	20	0.005	23	N58W	7.52	142.68
MW-5	3.10E-05	20	0.018	3	N44W	3.72	121.06
MW-6	1.60E-04	20	0.005	4	N65W	6.32	139.21
MW-7	7.30E-05	20	0.004	1	N67W	9.62	133.97
MW-8	3.40E-04	20	0.020	36	N11W	20.89	140.99
Minimum	3.10E-05	20	0.004	1	-	0.81	121.06
Average	1.10E-03	20	0.018	86	-	9.29	135.92
Maximum	6.40E-03	20	0.070	494	-	20.89	146.81

NOTE: Data for conductivities and effective porosity obtained from GAI Consultants' Water Sampling Report (January, 1995).

Hydrologic Gradient from groundwater elevations recorded on August 21-22, 2012

Linear Velocity (Q) is defined by modified Darcy's equation:

where $$Q = -\frac{K}{n_e} \cdot \frac{dh}{dl}$$

K = hydraulic conductivity

ne = effective porosity

dh = head difference

dl = horizontal distance

Table 5
Field Observations of Monitoring Locations
August 21-23, 2012

Sample Location	Viable Monitoring Location	Lack of Any Evidence of Tampering	Locked	Hinge/Hasp Operational	Tagged or Labeled	Concrete Surface Pad Effective	Comments
MW-1	Yes	Yes	Yes	Yes	Yes	Yes	
MW-2	Yes	Yes	Yes	Yes	Yes	Yes	
MW-3	Yes	Yes	Yes	Yes	Yes	Yes	Artesian
MW-4	Yes	Yes	Yes	Yes	Yes	Yes	Very fast recharge
MW-5	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	
MW-9	Yes	Yes	Yes	Yes	Yes	Yes	
MW-10	Yes	Yes	Yes	Yes	Yes	Yes	
MW-11	Yes	Yes	Yes	Yes	Yes	Yes	
SW-1	Yes	-	-	-	-	-	Shared Downstream of SW-3
SW-2	No	-	-	-	-	-	Dry-Upstream nearest MW-7
SW-2	Yes	-	-	-	-	-	Shared nearest lined MW-2
SW-3	Yes	-	-	-	-	-	Shared downstream of SW-2
SW-3	No	-	-	-	-	-	Dry-Shared Upstream nearest MW-4
SW-By _MW-2	Yes	-	-	-	-	-	Not required but supplemental sample

Any unusual field conditions, observations, or events:

None to note.

Table 6
Field Parameter Data Summary
August 21-22, 2012

Parameter	Depth to Water	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity
Units	**ft (btoc)**	**ft (amsl)**	**ft (amsl)**	**C**	**mV**	**mg/L**	**SU**	**umhos/cm**	**mg/L**	**NTU or Visual**
MW-1	19.52	146.81	166.33	18.8	288	6.8	5.03	0	0	142
MW-2	5.92	128.60	134.52	21.7	-97	1.8	6.42	1100	500	93
MW-3	0.81	134.00	134.81	19.9	27	0.4	6.07	400	190	Clear
MW-4	7.52	142.68	150.20	18.1	203	0.9	4.99	100	50	Clear
MW-5	3.72	121.06	124.78	20.1	119	1.1	4.83	70	30	Slight
MW-6	6.32	139.21	145.53	18.9	287	1.3	4.81	460	220	Slight
MW-7	9.62	133.97	143.59	20.2	291	2.3	5.03	90	40	Clear
MW-8	20.89	140.99	161.88	16.9	289	2.1	4.98	50	20	301
MW-9	21.34	141.62	162.96	17.1	223	1.6	4.52	40	20	Moderate
MW-10	19.62	143.28	162.90	18.1	321	2.4	5.93	70	30	Slight
MW-11	3.91	123.32	127.23	19.8	183	2.3	6.12	70	30	Slight
Minimum	0.81	121.06	124.78	16.9	-97	0.4	4.52	0	0	93
Average	10.84	135.96	146.79	19.1	194	2.1	5.34	223	103	179
Maximum	21.34	146.81	166.33	21.7	321	6.8	6.42	1100	500	301
SW-1	-	-	-	25.1	33	6.4	5.99	160	70	Clear
SW-2	-	-	-	24.8	29	6.3	6.07	180	90	Slight
SW-ByMW-2	-	-	-	25.1	37	6.3	6.23	120	50	Clear
SW-3	-	-	-	24.8	41	6.2	6.19	140	60	Clear
Minimum	-	-	-	24.8	29	6.2	5.99	120	50	Clear
Average	-	-	-	25.0	35	6.3	6.12	150	68	Clear
Maximum	-	-	-	25.1	41	6.4	6.23	180	90	Slight

NR = No reading attempted

Appendix A
Laboratory Analysis Reports
Chains of Custody

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September 05, 2012

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

RE: Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2012. 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

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CERTIFICATIONS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

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

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SAMPLE SUMMARY

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92129087001	**MW-1**	Water	08/22/12 09:35	08/23/12 15:35
92129087002	**MW-2**	Water	08/21/12 17:10	08/23/12 15:35
92129087003	**MW-3**	Water	08/21/12 16:30	08/23/12 15:35
92129087004	**MW-4**	Water	08/21/12 14:10	08/23/12 15:35
92129087005	**MW-5**	Water	08/21/12 12:00	08/23/12 15:35
92129087006	**MW-6**	Water	08/21/12 13:35	08/23/12 15:35
92129087007	**MW-7**	Water	08/21/12 14:50	08/23/12 15:35
92129087008	**MW-8**	Water	08/22/12 11:10	08/23/12 15:35
92129087009	**MW-9**	Water	08/22/12 10:40	08/23/12 15:35
92129087010	**MW-10**	Water	08/22/12 10:05	08/23/12 15:35
92129087011	**MW-11**	Water	08/21/12 15:50	08/23/12 15:35

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SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92129087001	**MW-1**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087002	**MW-2**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087003	**MW-3**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087004	**MW-4**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087005	**MW-5**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087006	**MW-6**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087007	**MW-7**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087008	**MW-8**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087009	**MW-9**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087010	**MW-10**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
92129087011	**MW-11**	EPA 6010	JMW	16	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	KJM	68	PASI-C
		SM 4500-S2D	AES	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-1 **Lab ID: 92129087001** Collected: 08/22/12 09:35 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 16:45	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:45	7440-38-2	
Barium	**30.2J**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 16:45	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:45	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:45	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:45	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:45	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:45	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:45	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 16:45	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:45	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:45	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 16:45	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 16:45	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 16:45	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 11:24	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 02:53	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 02:53	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 02:53	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 02:53	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 02:53	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 02:53	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 02:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 02:53	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 02:53	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 02:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 02:53	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 02:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 02:53	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 02:53	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 02:53	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 02:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 02:53	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 02:53	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 02:53	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 02:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 02:53	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 02:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 02:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 02:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 02:53	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-1 **Lab ID: 92129087001** Collected: 08/22/12 09:35 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 02:53	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 02:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 02:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 02:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 02:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 02:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 02:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 02:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 02:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 02:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 02:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 02:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 02:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 02:53	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 02:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 02:53	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 02:53	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 02:53	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 02:53	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 02:53	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 02:53	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 02:53	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 02:53	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 02:53	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 02:53	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 02:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 02:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 02:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 02:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 02:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 02:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 02:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 02:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 02:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 02:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 02:53	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 02:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 02:53	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 02:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/25/12 02:53	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		08/25/12 02:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		08/25/12 02:53	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		08/25/12 02:53	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-1 **Lab ID: 92129087001** Collected: 08/22/12 09:35 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		09/01/12 11:42	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-2 **Lab ID: 92129087002** Collected: 08/21/12 17:10 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 16:49	7440-36-0	
Arsenic	**17.0**	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:49	7440-38-2	
Barium	**191**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 16:49	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:49	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:49	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:49	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:49	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:49	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:49	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 16:49	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:49	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:49	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 16:49	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 16:49	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 16:49	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:49	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 11:26	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 03:08	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 03:08	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 03:08	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 03:08	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 03:08	107-05-1	
Benzene	**2.4**	ug/L	1.0	0.25	1		08/25/12 03:08	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 03:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 03:08	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 03:08	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 03:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 03:08	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 03:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 03:08	56-23-5	
Chlorobenzene	**20.2**	ug/L	3.0	0.23	1		08/25/12 03:08	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 03:08	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 03:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 03:08	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 03:08	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 03:08	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 03:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 03:08	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 03:08	74-95-3	
1,2-Dichlorobenzene	**0.47J**	ug/L	5.0	0.30	1		08/25/12 03:08	95-50-1	
1,3-Dichlorobenzene	**0.35J**	ug/L	5.0	0.24	1		08/25/12 03:08	541-73-1	
1,4-Dichlorobenzene	**4.8**	ug/L	1.0	0.33	1		08/25/12 03:08	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-2 **Lab ID: 92129087002** Collected: 08/21/12 17:10 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 03:08	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 03:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 03:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 03:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 03:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 03:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 03:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 03:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 03:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 03:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 03:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 03:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 03:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 03:08	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 03:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 03:08	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 03:08	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 03:08	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 03:08	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 03:08	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 03:08	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 03:08	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 03:08	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 03:08	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 03:08	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 03:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 03:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 03:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 03:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 03:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 03:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 03:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 03:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 03:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 03:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 03:08	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 03:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 03:08	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 03:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/25/12 03:08	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		08/25/12 03:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1		08/25/12 03:08	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/25/12 03:08	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-2 **Lab ID: 92129087002** Collected: 08/21/12 17:10 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	**9.8J**	ug/L	10.0	5.0	1		08/31/12 10:33	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-3 **Lab ID: 92129087003** Collected: 08/21/12 16:30 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 16:54	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:54	7440-38-2	
Barium	**17.3J**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 16:54	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:54	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:54	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:54	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:54	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:54	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:54	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 16:54	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:54	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:54	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 16:54	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 16:54	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 16:54	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:54	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470	Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 11:29	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 03:24	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 03:24	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 03:24	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 03:24	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 03:24	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 03:24	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 03:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 03:24	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 03:24	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 03:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 03:24	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 03:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 03:24	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 03:24	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 03:24	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 03:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 03:24	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 03:24	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 03:24	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 03:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 03:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 03:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 03:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 03:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 03:24	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-3 **Lab ID: 92129087003** Collected: 08/21/12 16:30 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 03:24	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 03:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 03:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 03:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 03:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 03:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 03:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 03:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 03:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 03:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 03:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 03:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 03:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 03:24	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 03:24	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 03:24	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 03:24	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 03:24	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 03:24	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 03:24	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 03:24	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 03:24	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 03:24	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 03:24	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 03:24	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 03:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 03:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 03:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 03:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 03:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 03:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 03:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 03:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 03:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 03:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 03:24	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 03:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 03:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 03:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/25/12 03:24	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		08/25/12 03:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		08/25/12 03:24	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/25/12 03:24	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-3 **Lab ID: 92129087003** Collected: 08/21/12 16:30 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		08/31/12 10:34	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-4 **Lab ID: 92129087004** Collected: 08/21/12 14:10 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 17:10	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:10	7440-38-2	
Barium	**23.0J**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:10	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:10	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:10	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:10	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:10	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:10	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:10	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 17:10	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:10	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:10	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 17:10	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:10	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 17:10	7440-62-2	
Zinc	**13.1**	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 12:37	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 03:40	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 03:40	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 03:40	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 03:40	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 03:40	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 03:40	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 03:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 03:40	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 03:40	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 03:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 03:40	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 03:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 03:40	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 03:40	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 03:40	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 03:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 03:40	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 03:40	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 03:40	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 03:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 03:40	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 03:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 03:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 03:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 03:40	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-4 **Lab ID: 92129087004** Collected: 08/21/12 14:10 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 03:40	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 03:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 03:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 03:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 03:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 03:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 03:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 03:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 03:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 03:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 03:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 03:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 03:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 03:40	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 03:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 03:40	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 03:40	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 03:40	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 03:40	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 03:40	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 03:40	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 03:40	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 03:40	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 03:40	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 03:40	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 03:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 03:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 03:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 03:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 03:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 03:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 03:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 03:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 03:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 03:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 03:40	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 03:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 03:40	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 03:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/25/12 03:40	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		08/25/12 03:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1		08/25/12 03:40	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		08/25/12 03:40	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-4 **Lab ID: 92129087004** Collected: 08/21/12 14:10 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		08/31/12 10:35	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-5 **Lab ID: 92129087005** Collected: 08/21/12 12:00 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 17:13	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:13	7440-38-2	
Barium	**49.8J**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:13	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:13	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:13	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:13	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:13	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:13	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:13	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 17:13	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:13	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:13	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 17:13	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:13	7440-31-5	
Vanadium	**6.5J**	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 17:13	7440-62-2	
Zinc	**12.2**	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:13	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 12:40	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 03:55	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 03:55	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 03:55	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 03:55	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 03:55	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 03:55	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 03:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 03:55	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 03:55	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 03:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 03:55	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 03:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 03:55	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 03:55	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 03:55	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 03:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 03:55	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 03:55	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 03:55	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 03:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 03:55	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 03:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 03:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 03:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 03:55	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-5 **Lab ID: 92129087005** Collected: 08/21/12 12:00 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 03:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 03:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 03:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 03:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 03:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 03:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 03:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 03:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 03:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 03:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 03:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 03:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 03:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 03:55	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 03:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 03:55	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 03:55	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 03:55	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 03:55	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 03:55	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 03:55	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 03:55	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 03:55	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 03:55	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 03:55	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 03:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 03:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 03:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 03:55	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 03:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 03:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 03:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 03:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 03:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 03:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 03:55	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 03:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 03:55	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 03:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/25/12 03:55	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		08/25/12 03:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		08/25/12 03:55	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		08/25/12 03:55	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-5 **Lab ID: 92129087005** Collected: 08/21/12 12:00 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		08/31/12 10:35	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-6 **Lab ID: 92129087006** Collected: 08/21/12 13:35 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 17:16	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:16	7440-38-2	
Barium	**167**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:16	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:16	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:16	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:16	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:16	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:16	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:16	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 17:16	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:16	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:16	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 17:16	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:16	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 17:16	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:16	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 12:42	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**2.8J**	ug/L	100	2.2	1		08/25/12 04:11	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 04:11	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 04:11	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 04:11	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 04:11	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 04:11	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 04:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 04:11	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 04:11	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 04:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 04:11	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 04:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 04:11	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 04:11	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 04:11	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 04:11	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 04:11	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 04:11	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 04:11	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 04:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 04:11	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 04:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 04:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 04:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 04:11	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-6 **Lab ID: 92129087006** Collected: 08/21/12 13:35 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 04:11	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 04:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 04:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 04:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 04:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 04:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 04:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 04:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 04:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 04:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 04:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 04:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 04:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 04:11	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 04:11	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 04:11	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 04:11	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 04:11	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 04:11	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 04:11	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 04:11	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 04:11	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 04:11	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 04:11	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 04:11	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 04:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 04:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 04:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 04:11	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 04:11	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 04:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 04:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 04:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 04:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 04:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 04:11	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 04:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 04:11	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 04:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/12 04:11	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		08/25/12 04:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	128	%	70-130		1		08/25/12 04:11	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/25/12 04:11	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-6 **Lab ID: 92129087006** Collected: 08/21/12 13:35 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		08/31/12 10:36	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-7 **Lab ID: 92129087007** Collected: 08/21/12 14:50 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 17:19	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:19	7440-38-2	
Barium	**46.7J**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:19	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:19	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:19	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:19	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:19	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:19	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:19	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 17:19	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:19	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:19	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 17:19	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:19	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 17:19	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 12:45	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 04:27	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 04:27	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 04:27	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 04:27	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 04:27	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 04:27	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 04:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 04:27	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 04:27	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 04:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 04:27	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 04:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 04:27	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 04:27	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 04:27	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 04:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 04:27	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 04:27	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 04:27	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 04:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 04:27	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 04:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 04:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 04:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 04:27	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-7 **Lab ID: 92129087007** Collected: 08/21/12 14:50 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 04:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 04:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 04:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 04:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 04:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 04:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 04:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 04:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 04:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 04:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 04:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 04:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 04:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 04:27	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 04:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 04:27	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 04:27	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 04:27	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 04:27	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 04:27	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 04:27	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 04:27	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 04:27	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 04:27	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 04:27	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 04:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 04:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 04:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 04:27	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 04:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 04:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 04:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 04:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 04:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 04:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 04:27	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 04:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 04:27	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 04:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		08/25/12 04:27	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		08/25/12 04:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		08/25/12 04:27	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		08/25/12 04:27	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-7 **Lab ID: 92129087007** Collected: 08/21/12 14:50 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		08/31/12 10:37	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-8 **Lab ID: 92129087008** Collected: 08/22/12 11:10 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 17:23	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:23	7440-38-2	
Barium	**80.4J**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:23	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:23	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:23	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:23	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:23	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:23	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:23	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 17:23	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:23	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:23	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 17:23	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:23	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 17:23	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:23	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 12:47	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 04:43	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 04:43	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 04:43	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 04:43	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 04:43	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 04:43	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 04:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 04:43	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 04:43	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 04:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 04:43	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 04:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 04:43	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 04:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 04:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 04:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 04:43	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 04:43	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 04:43	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 04:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 04:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 04:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 04:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 04:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 04:43	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-8 **Lab ID: 92129087008** Collected: 08/22/12 11:10 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 04:43	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 04:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 04:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 04:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 04:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 04:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 04:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 04:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 04:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 04:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 04:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 04:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 04:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 04:43	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 04:43	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 04:43	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 04:43	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 04:43	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 04:43	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 04:43	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 04:43	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 04:43	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 04:43	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 04:43	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 04:43	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 04:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 04:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 04:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 04:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 04:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 04:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 04:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 04:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 04:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 04:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 04:43	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 04:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 04:43	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 04:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/25/12 04:43	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		08/25/12 04:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		08/25/12 04:43	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/25/12 04:43	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-8 **Lab ID: 92129087008** Collected: 08/22/12 11:10 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		09/01/12 11:44	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-9 **Lab ID: 92129087009** Collected: 08/22/12 10:40 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 17:26	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:26	7440-38-2	
Barium	**22.4J**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:26	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:26	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:26	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:26	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:26	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:26	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:26	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 17:26	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:26	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:26	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 17:26	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:26	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 17:26	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 12:50	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 04:58	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 04:58	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 04:58	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 04:58	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 04:58	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 04:58	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 04:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 04:58	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 04:58	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 04:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 04:58	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 04:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 04:58	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 04:58	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 04:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 04:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 04:58	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 04:58	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 04:58	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 04:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 04:58	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 04:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 04:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 04:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 04:58	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-9 **Lab ID: 92129087009** Collected: 08/22/12 10:40 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 04:58	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 04:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 04:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 04:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 04:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 04:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 04:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 04:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 04:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 04:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 04:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 04:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 04:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 04:58	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 04:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 04:58	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 04:58	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 04:58	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 04:58	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 04:58	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 04:58	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 04:58	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 04:58	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 04:58	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 04:58	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 04:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 04:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 04:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 04:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 04:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 04:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 04:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 04:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 04:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 04:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 04:58	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 04:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 04:58	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 04:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/12 04:58	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		08/25/12 04:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		08/25/12 04:58	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		08/25/12 04:58	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-9 **Lab ID: 92129087009** Collected: 08/22/12 10:40 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		09/01/12 11:45	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-10 **Lab ID: 92129087010** Collected: 08/22/12 10:05 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 17:29	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:29	7440-38-2	
Barium	**192**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:29	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:29	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:29	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:29	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:29	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:29	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:29	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 17:29	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:29	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:29	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 17:29	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:29	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 17:29	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:29	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 12:53	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 05:14	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 05:14	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 05:14	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 05:14	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 05:14	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 05:14	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 05:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 05:14	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 05:14	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 05:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 05:14	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 05:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 05:14	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 05:14	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 05:14	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 05:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 05:14	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 05:14	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 05:14	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 05:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 05:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 05:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 05:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 05:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 05:14	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-10 **Lab ID: 92129087010** Collected: 08/22/12 10:05 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 05:14	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 05:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 05:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 05:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 05:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 05:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 05:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 05:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 05:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 05:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 05:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 05:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 05:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 05:14	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 05:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 05:14	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 05:14	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 05:14	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 05:14	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 05:14	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 05:14	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 05:14	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 05:14	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 05:14	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 05:14	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 05:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 05:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 05:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 05:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 05:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 05:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 05:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 05:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 05:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 05:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 05:14	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 05:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 05:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 05:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/25/12 05:14	460-00-4	
Dibromofluoromethane (S)	126	%	70-130		1		08/25/12 05:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	128	%	70-130		1		08/25/12 05:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/25/12 05:14	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-10 **Lab ID: 92129087010** Collected: 08/22/12 10:05 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		09/01/12 11:46	57-12-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-11 **Lab ID: 92129087011** Collected: 08/21/12 15:50 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 17:33	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:33	7440-38-2	
Barium	**511**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:33	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:33	7440-41-7	
Cadmium	**1.0**	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 17:33	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:33	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:33	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:33	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:33	7439-92-1	
Nickel	**7.3J**	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 17:33	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:33	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 17:33	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 17:33	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 17:33	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 17:33	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 17:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.10	1	08/29/12 16:05	08/30/12 12:55	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/25/12 05:30	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 05:30	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 05:30	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 05:30	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 05:30	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 05:30	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 05:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 05:30	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 05:30	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 05:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 05:30	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 05:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 05:30	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 05:30	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 05:30	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 05:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 05:30	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 05:30	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 05:30	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 05:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 05:30	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 05:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 05:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 05:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 05:30	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-11 **Lab ID: 92129087011** Collected: 08/21/12 15:50 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 05:30	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 05:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 05:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 05:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 05:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 05:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 05:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 05:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 05:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 05:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 05:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 05:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 05:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 05:30	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 05:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 05:30	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 05:30	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 05:30	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 05:30	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 05:30	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 05:30	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 05:30	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 05:30	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/25/12 05:30	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 05:30	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 05:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 05:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 05:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 05:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 05:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 05:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 05:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 05:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 05:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 05:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 05:30	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 05:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 05:30	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 05:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		08/25/12 05:30	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		08/25/12 05:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		08/25/12 05:30	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/25/12 05:30	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Sample: MW-11 **Lab ID: 92129087011** Collected: 08/21/12 15:50 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		08/25/12 15:05	18496-25-8	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		08/31/12 10:40	57-12-5	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

QC Batch: MERP/4473 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92129087001, 92129087002, 92129087003

METHOD BLANK: 823842 Matrix: Water
Associated Lab Samples: 92129087001, 92129087002, 92129087003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	08/30/12 10:18	

LABORATORY CONTROL SAMPLE: 823843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.1	82	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 823844 823845

Parameter	Units	92129145001 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	1.8	2.0	72	80	75-125	10	25	M1

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

QC Batch: MERP/4474 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92129087004, 92129087005, 92129087006, 92129087007, 92129087008, 92129087009, 92129087010, 92129087011

METHOD BLANK: 823847 Matrix: Water
Associated Lab Samples: 92129087004, 92129087005, 92129087006, 92129087007, 92129087008, 92129087009, 92129087010, 92129087011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	08/30/12 12:32	

LABORATORY CONTROL SAMPLE: 823848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 823849 823850

Parameter	Units	92128809020 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	1.9	2.0	77	78	75-125	1	25	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

QC Batch: MPRP/11348 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92129087001, 92129087002, 92129087003, 92129087004, 92129087005, 92129087006, 92129087007, 92129087008, 92129087009, 92129087010, 92129087011

METHOD BLANK: 821855 — Matrix: Water
Associated Lab Samples: 92129087001, 92129087002, 92129087003, 92129087004, 92129087005, 92129087006, 92129087007, 92129087008, 92129087009, 92129087010, 92129087011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	08/28/12 16:18	
Arsenic	ug/L	ND	10.0	08/28/12 16:18	
Barium	ug/L	ND	100	08/28/12 16:18	
Beryllium	ug/L	ND	1.0	08/28/12 16:18	
Cadmium	ug/L	ND	1.0	08/28/12 16:18	
Chromium	ug/L	ND	10.0	08/28/12 16:18	
Cobalt	ug/L	ND	10.0	08/28/12 16:18	
Copper	ug/L	ND	10.0	08/28/12 16:18	
Lead	ug/L	ND	10.0	08/28/12 16:18	
Nickel	ug/L	ND	50.0	08/28/12 16:18	
Selenium	ug/L	ND	10.0	08/28/12 16:18	
Silver	ug/L	ND	10.0	08/28/12 16:18	
Thallium	ug/L	ND	5.5	08/28/12 16:18	
Tin	ug/L	ND	100	08/28/12 16:18	
Vanadium	ug/L	ND	25.0	08/28/12 16:18	
Zinc	ug/L	ND	10.0	08/28/12 16:18	

LABORATORY CONTROL SAMPLE: 821856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	482	96	80-120	
Arsenic	ug/L	500	493	99	80-120	
Barium	ug/L	500	501	100	80-120	
Beryllium	ug/L	500	497	99	80-120	
Cadmium	ug/L	500	495	99	80-120	
Chromium	ug/L	500	485	97	80-120	
Cobalt	ug/L	500	492	98	80-120	
Copper	ug/L	500	505	101	80-120	
Lead	ug/L	500	496	99	80-120	
Nickel	ug/L	500	496	99	80-120	
Selenium	ug/L	500	493	99	80-120	
Silver	ug/L	250	242	97	80-120	
Thallium	ug/L	500	490	98	80-120	
Tin	ug/L	500	491	98	80-120	
Vanadium	ug/L	500	498	100	80-120	
Zinc	ug/L	500	484	97	80-120	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

MATRIX SPIKE SAMPLE: 821857

Parameter	Units	92129082002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	487	97	75-125	
Arsenic	ug/L	ND	500	502	100	75-125	
Barium	ug/L	59.8J	500	552	98	75-125	
Beryllium	ug/L	ND	500	491	98	75-125	
Cadmium	ug/L	ND	500	485	97	75-125	
Chromium	ug/L	ND	500	478	95	75-125	
Cobalt	ug/L	ND	500	483	97	75-125	
Copper	ug/L	ND	500	510	101	75-125	
Lead	ug/L	ND	500	480	96	75-125	
Nickel	ug/L	ND	500	487	97	75-125	
Selenium	ug/L	ND	500	499	100	75-125	
Silver	ug/L	ND	250	240	96	75-125	
Thallium	ug/L	ND	500	476	95	75-125	
Tin	ug/L	ND	500	484	97	75-125	
Vanadium	ug/L	ND	500	499	100	75-125	
Zinc	ug/L	ND	500	487	96	75-125	

SAMPLE DUPLICATE: 821858

Parameter	Units	92129086001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	60.1J	60.1J	0	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

QC Batch: MSV/20180 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92129087001, 92129087002, 92129087003, 92129087004, 92129087005, 92129087006, 92129087007, 92129087008, 92129087009, 92129087010, 92129087011

METHOD BLANK: 821155 Matrix: Water
Associated Lab Samples: 92129087001, 92129087002, 92129087003, 92129087004, 92129087005, 92129087006, 92129087007, 92129087008, 92129087009, 92129087010, 92129087011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/25/12 00:00	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/25/12 00:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	08/25/12 00:00	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/25/12 00:00	
1,1-Dichloroethane	ug/L	ND	5.0	08/25/12 00:00	
1,1-Dichloroethene	ug/L	ND	5.0	08/25/12 00:00	
1,1-Dichloropropene	ug/L	ND	5.0	08/25/12 00:00	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/25/12 00:00	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	08/25/12 00:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	08/25/12 00:00	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/25/12 00:00	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/25/12 00:00	
1,2-Dichloroethane	ug/L	ND	1.0	08/25/12 00:00	
1,2-Dichloropropane	ug/L	ND	1.0	08/25/12 00:00	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/25/12 00:00	
1,3-Dichloropropane	ug/L	ND	1.0	08/25/12 00:00	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/25/12 00:00	
2,2-Dichloropropane	ug/L	ND	15.0	08/25/12 00:00	
2-Butanone (MEK)	ug/L	ND	100	08/25/12 00:00	
2-Hexanone	ug/L	ND	50.0	08/25/12 00:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	08/25/12 00:00	
Acetone	ug/L	ND	100	08/25/12 00:00	
Acetonitrile	ug/L	ND	55.0	08/25/12 00:00	
Acrolein	ug/L	ND	53.0	08/25/12 00:00	
Acrylonitrile	ug/L	ND	200	08/25/12 00:00	
Allyl chloride	ug/L	ND	10.0	08/25/12 00:00	
Benzene	ug/L	ND	1.0	08/25/12 00:00	
Bromochloromethane	ug/L	ND	3.0	08/25/12 00:00	
Bromodichloromethane	ug/L	ND	1.0	08/25/12 00:00	
Bromoform	ug/L	ND	3.0	08/25/12 00:00	
Bromomethane	ug/L	ND	10.0	08/25/12 00:00	
Carbon disulfide	ug/L	ND	100	08/25/12 00:00	
Carbon tetrachloride	ug/L	ND	1.0	08/25/12 00:00	
Chlorobenzene	ug/L	ND	3.0	08/25/12 00:00	
Chloroethane	ug/L	ND	10.0	08/25/12 00:00	
Chloroform	ug/L	ND	5.0	08/25/12 00:00	
Chloromethane	ug/L	ND	1.0	08/25/12 00:00	
Chloroprene	ug/L	ND	20.0	08/25/12 00:00	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/25/12 00:00	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/25/12 00:00	
Dibromochloromethane	ug/L	ND	3.0	08/25/12 00:00	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

METHOD BLANK: 821155 Matrix: Water

Associated Lab Samples: 92129087001, 92129087002, 92129087003, 92129087004, 92129087005, 92129087006, 92129087007, 92129087008, 92129087009, 92129087010, 92129087011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	10.0	08/25/12 00:00	
Dichlorodifluoromethane	ug/L	ND	5.0	08/25/12 00:00	
Ethyl methacrylate	ug/L	ND	10.0	08/25/12 00:00	
Ethylbenzene	ug/L	ND	1.0	08/25/12 00:00	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	08/25/12 00:00	
Iodomethane	ug/L	ND	10.0	08/25/12 00:00	
Isobutanol	ug/L	ND	100	08/25/12 00:00	
Methacrylonitrile	ug/L	ND	100	08/25/12 00:00	
Methyl methacrylate	ug/L	ND	30.0	08/25/12 00:00	
Methylene Chloride	ug/L	ND	1.0	08/25/12 00:00	
Naphthalene	ug/L	ND	10.0	08/25/12 00:00	
Propionitrile	ug/L	ND	150	08/25/12 00:00	
Styrene	ug/L	ND	1.0	08/25/12 00:00	
Tetrachloroethene	ug/L	ND	1.0	08/25/12 00:00	
Toluene	ug/L	ND	1.0	08/25/12 00:00	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/25/12 00:00	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/25/12 00:00	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/25/12 00:00	
Trichloroethene	ug/L	ND	1.0	08/25/12 00:00	
Trichlorofluoromethane	ug/L	ND	1.0	08/25/12 00:00	
Vinyl acetate	ug/L	ND	50.0	08/25/12 00:00	
Vinyl chloride	ug/L	ND	1.0	08/25/12 00:00	
Xylene (Total)	ug/L	ND	5.0	08/25/12 00:00	
1,2-Dichloroethane-d4 (S)	%	119	70-130	08/25/12 00:00	
4-Bromofluorobenzene (S)	%	97	70-130	08/25/12 00:00	
Dibromofluoromethane (S)	%	114	70-130	08/25/12 00:00	
Toluene-d8 (S)	%	104	70-130	08/25/12 00:00	

LABORATORY CONTROL SAMPLE: 821156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.7	93	70-130	
1,1,1-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.0	92	70-130	
1,1,2-Trichloroethane	ug/L	50	48.3	97	70-130	
1,1-Dichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethene	ug/L	50	43.7	87	70-132	
1,1-Dichloropropene	ug/L	50	54.4	109	70-130	
1,2,3-Trichloropropane	ug/L	50	48.3	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.0	92	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.7	101	70-130	
1,2-Dichlorobenzene	ug/L	50	44.5	89	70-130	
1,2-Dichloroethane	ug/L	50	49.7	99	70-130	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

LABORATORY CONTROL SAMPLE: 821156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	49.1	98	70-130	
1,3-Dichlorobenzene	ug/L	50	44.5	89	70-130	
1,3-Dichloropropane	ug/L	50	50.8	102	70-130	
1,4-Dichlorobenzene	ug/L	50	44.2	88	70-130	
2,2-Dichloropropane	ug/L	50	42.7	85	58-145	
2-Butanone (MEK)	ug/L	100	98.7J	99	70-145	
2-Hexanone	ug/L	100	104	104	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.8J	98	70-140	
Acetone	ug/L	100	89.2J	89	50-175	
Acetonitrile	ug/L	500	500	100	70-130	
Acrolein	ug/L	250	204	82	70-130	
Acrylonitrile	ug/L	250	230	92	70-143	
Allyl chloride	ug/L	50	35.4	71	70-130	
Benzene	ug/L	50	51.5	103	70-130	
Bromochloromethane	ug/L	50	45.8	92	70-130	
Bromodichloromethane	ug/L	50	48.9	98	70-130	
Bromoform	ug/L	50	51.2	102	70-130	
Bromomethane	ug/L	50	29.0	58	54-130	
Carbon disulfide	ug/L	50	42.8J	86	70-131	
Carbon tetrachloride	ug/L	50	50.0	100	70-132	
Chlorobenzene	ug/L	50	47.6	95	70-130	
Chloroethane	ug/L	50	43.5	87	64-134	
Chloroform	ug/L	50	47.4	95	70-130	
Chloromethane	ug/L	50	40.1	80	64-130	
Chloroprene	ug/L	50	55.6	111	70-130	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	70-130	
Dibromochloromethane	ug/L	50	48.6	97	70-130	
Dibromomethane	ug/L	50	46.6	93	70-131	
Dichlorodifluoromethane	ug/L	50	49.9	100	56-130	
Ethyl methacrylate	ug/L	50	52.8	106	70-130	
Ethylbenzene	ug/L	50	48.0	96	70-130	
Hexachloro-1,3-butadiene	ug/L	50	43.9	88	70-130	
Iodomethane	ug/L	100	64.3	64	49-180	
Isobutanol	ug/L	1000	935	94	70-130	
Methacrylonitrile	ug/L	500	496	99	70-130	
Methyl methacrylate	ug/L	50	53.5	107	70-130	
Methylene Chloride	ug/L	50	42.6	85	63-130	
Naphthalene	ug/L	50	47.1	94	70-138	
Propionitrile	ug/L	500	475	95	70-130	
Styrene	ug/L	50	48.9	98	70-130	
Tetrachloroethene	ug/L	50	49.0	98	70-130	
Toluene	ug/L	50	46.4	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.0	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.1	98	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	48.4J	97	70-141	
Trichloroethene	ug/L	50	48.7	97	70-130	
Trichlorofluoromethane	ug/L	50	36.1	72	62-133	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

LABORATORY CONTROL SAMPLE: 821156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl acetate	ug/L	100	96.4	96	66-157	
Vinyl chloride	ug/L	50	41.6	83	69-130	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 821157 821158

Parameter	Units	92128710002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	55.7	56.4	111	113	70-166	1	30	
Benzene	ug/L	ND	50	50	48.0	56.8	96	114	70-148	17	30	
Chlorobenzene	ug/L	ND	50	50	54.1	60.3	108	121	70-146	11	30	
Toluene	ug/L	ND	50	50	57.0	62.8	114	126	70-155	10	30	
Trichloroethene	ug/L	ND	50	50	56.5	63.3	113	127	69-151	11	30	
1,2-Dichloroethane-d4 (S)	%						125	116	70-130			
4-Bromofluorobenzene (S)	%						100	98	70-130			
Dibromofluoromethane (S)	%						117	106	70-130			
Toluene-d8 (S)	%						101	100	70-130			

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

QC Batch: WET/22179 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92129087001, 92129087002, 92129087003, 92129087004, 92129087005, 92129087006, 92129087007, 92129087011

METHOD BLANK: 821918 Matrix: Water
Associated Lab Samples: 92129087001, 92129087002, 92129087003, 92129087004, 92129087005, 92129087006, 92129087007, 92129087011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	08/25/12 15:05	

LABORATORY CONTROL SAMPLE: 821919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	498J	100	90-110	

MATRIX SPIKE SAMPLE: 821920

Parameter	Units	92128617001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	450J	90	75-125	

SAMPLE DUPLICATE: 821921

Parameter	Units	92128617001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

QC Batch: WET/22180 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92129087008, 92129087009, 92129087010

METHOD BLANK: 822003 Matrix: Water
Associated Lab Samples: 92129087008, 92129087009, 92129087010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	08/25/12 15:05	

LABORATORY CONTROL SAMPLE: 822004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	511J	102	90-110	

MATRIX SPIKE SAMPLE: 822005

Parameter	Units	92129087008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	500J	100	75-125	

SAMPLE DUPLICATE: 822006

Parameter	Units	92129087008 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

QC Batch: WETA/13084 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92129087002, 92129087003, 92129087004, 92129087005, 92129087006, 92129087007, 92129087011

METHOD BLANK: 824979 Matrix: Water
Associated Lab Samples: 92129087002, 92129087003, 92129087004, 92129087005, 92129087006, 92129087007, 92129087011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	08/31/12 10:22	

LABORATORY CONTROL SAMPLE: 824980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	94.5	94	80-120	

MATRIX SPIKE SAMPLE: 824981

Parameter	Units	92129336006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	ND	100	ND	3	75-125	M1

SAMPLE DUPLICATE: 824982

Parameter	Units	92128795001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

QC Batch: WETA/13098 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 92129087001, 92129087008, 92129087009, 92129087010

METHOD BLANK: 825974 Matrix: Water
Associated Lab Samples: 92129087001, 92129087008, 92129087009, 92129087010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	09/01/12 11:37	

LABORATORY CONTROL SAMPLE: 825975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	112	112	80-120	

MATRIX SPIKE SAMPLE: 825976

Parameter	Units	92129065003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	ND	100	111	107	75-125	

SAMPLE DUPLICATE: 825977

Parameter	Units	92129087001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	ND	ND		20	

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QUALIFIERS

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92129087001	**MW-1**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087002	**MW-2**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087003	**MW-3**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087004	**MW-4**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087005	**MW-5**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087006	**MW-6**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087007	**MW-7**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087008	**MW-8**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087009	**MW-9**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087010	**MW-10**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087011	**MW-11**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129087001	**MW-1**	EPA 7470	MERP/4473	EPA 7470	MERC/4385
92129087002	**MW-2**	EPA 7470	MERP/4473	EPA 7470	MERC/4385
92129087003	**MW-3**	EPA 7470	MERP/4473	EPA 7470	MERC/4385
92129087004	**MW-4**	EPA 7470	MERP/4474	EPA 7470	MERC/4386
92129087005	**MW-5**	EPA 7470	MERP/4474	EPA 7470	MERC/4386
92129087006	**MW-6**	EPA 7470	MERP/4474	EPA 7470	MERC/4386
92129087007	**MW-7**	EPA 7470	MERP/4474	EPA 7470	MERC/4386
92129087008	**MW-8**	EPA 7470	MERP/4474	EPA 7470	MERC/4386
92129087009	**MW-9**	EPA 7470	MERP/4474	EPA 7470	MERC/4386
92129087010	**MW-10**	EPA 7470	MERP/4474	EPA 7470	MERC/4386
92129087011	**MW-11**	EPA 7470	MERP/4474	EPA 7470	MERC/4386
92129087001	**MW-1**	EPA 8260	MSV/20180		
92129087002	**MW-2**	EPA 8260	MSV/20180		
92129087003	**MW-3**	EPA 8260	MSV/20180		
92129087004	**MW-4**	EPA 8260	MSV/20180		
92129087005	**MW-5**	EPA 8260	MSV/20180		
92129087006	**MW-6**	EPA 8260	MSV/20180		
92129087007	**MW-7**	EPA 8260	MSV/20180		
92129087008	**MW-8**	EPA 8260	MSV/20180		
92129087009	**MW-9**	EPA 8260	MSV/20180		
92129087010	**MW-10**	EPA 8260	MSV/20180		
92129087011	**MW-11**	EPA 8260	MSV/20180		
92129087001	**MW-1**	SM 4500-S2D	WET/22179		
92129087002	**MW-2**	SM 4500-S2D	WET/22179		
92129087003	**MW-3**	SM 4500-S2D	WET/22179		
92129087004	**MW-4**	SM 4500-S2D	WET/22179		
92129087005	**MW-5**	SM 4500-S2D	WET/22179		
92129087006	**MW-6**	SM 4500-S2D	WET/22179		
92129087007	**MW-7**	SM 4500-S2D	WET/22179		
92129087008	**MW-8**	SM 4500-S2D	WET/22180		
92129087009	**MW-9**	SM 4500-S2D	WET/22180		
92129087010	**MW-10**	SM 4500-S2D	WET/22180		
92129087011	**MW-11**	SM 4500-S2D	WET/22179		
92129087001	**MW-1**	SM 4500-CN-E	WETA/13098		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAYNE CLOSED MSWLF (DUDLEY)
Pace Project No.: 92129087

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92129087002	**MW-2**	SM 4500-CN-E	WETA/13084		
92129087003	**MW-3**	SM 4500-CN-E	WETA/13084		
92129087004	**MW-4**	SM 4500-CN-E	WETA/13084		
92129087005	**MW-5**	SM 4500-CN-E	WETA/13084		
92129087006	**MW-6**	SM 4500-CN-E	WETA/13084		
92129087007	**MW-7**	SM 4500-CN-E	WETA/13084		
92129087008	**MW-8**	SM 4500-CN-E	WETA/13098		
92129087009	**MW-9**	SM 4500-CN-E	WETA/13098		
92129087010	**MW-10**	SM 4500-CN-E	WETA/13098		
92129087011	**MW-11**	SM 4500-CN-E	WETA/13084		

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Final Submittal
~~Contains all samples previously submitted~~

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Wayne Closed MSWLF (Dudley)
Container Order Number:	

Section C — Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
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 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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N	N	N	N	N	N	N	N	N	N	N	N	N		92129087
																						VOCs- App 2	Metals-App 2					Total Cyanide	Sulfide				
1	MW-1	WT	G			8/22/12	9:35					1	3									x	x					x	x				001
2	~~MW-2~~ MW-2	WT	G			8/21/12	5:10					1	3									x	x					x	x				002
3	~~MW-3~~ MW-3	WT	G				4:30					1	3									x	x					x	x				003
4	~~MW-4~~ MW-4	WT	G				2:10					1	3									x	x					x	x				004
5	~~MW-5~~ MW-5	WT	G				12:00					1	3									x	x					x	x				005
6	~~MW-6~~ MW-6	WT	G				1:35					1	3									x	x					x	x				006
7	~~MW-7~~ MW-7	WT	G				2:50					1	3									x	x					x	x				007
8	MW-8	WT	G			8/22/12	11:10					1	3									x	x					x	x				008
9	MW-9	WT	G			8/22/12	10:40					1	3									x	x					x	x				009
10	MW-10	WT	G			8/22/12	10:05					1	3									x	x					x	x				010
11	~~MW-11~~ MW-11	WT	G			8/21/12	3:50					1	3									x	x					x	x				011
12																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / MESCO	8/23/12	8AM	[signature] Pace	8/23/12	8:54				
	Left in office									
	[signature] Pace	8/23/12	15:35	[signature] Pace	8/23/12	1535	5.1	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: [signature] DATE Signed: 8/22/12

8-23-12

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Engineering Services Project # 92129087

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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 (T1101) T1102 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1101:** No Correction **T1102:** No Correction

Corrected Cooler Temp.: 5.1 C **Biological Tissue Is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/23/12

		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:	☐Yes ☑No ☐N/A	12. No Date No Time on Bottles
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
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	Initial when completed
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.
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: VG **Date:** 8/23/12 **SRF Review:** VG **Date:** 8/24/12

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)

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September 10, 2012

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

RE: Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2012. 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

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CERTIFICATIONS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

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

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SAMPLE SUMMARY

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92129079016	**FB**	Water	08/23/12 00:00	08/24/12 14:32
92129079017	**EB**	Water	08/23/12 00:00	08/24/12 14:32
92129079018	**TB**	Water	08/23/12 00:00	08/24/12 14:32

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SAMPLE ANALYTE COUNT

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92129079016	**FB**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	KJM	68	PASI-C
92129079017	**EB**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	KJM	68	PASI-C
92129079018	**TB**	EPA 8260	KJM	68	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Sample: FB **Lab ID: 92129079016** Collected: 08/23/12 00:00 Received: 08/24/12 14:32 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	08/31/12 22:15	09/04/12 22:14	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:14	7440-38-2	
Barium	ND	ug/L	100	5.0	1	08/31/12 22:15	09/04/12 22:14	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/31/12 22:15	09/04/12 22:14	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/31/12 22:15	09/04/12 22:14	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:14	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:14	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:14	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:14	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/31/12 22:15	09/04/12 22:14	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/31/12 22:15	09/04/12 22:14	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:14	7440-22-4	
Thallium	**7.4**	ug/L	5.5	5.4	1	08/31/12 22:15	09/04/12 22:14	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/31/12 22:15	09/04/12 22:14	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/31/12 22:15	09/04/12 22:14	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/31/12 22:15	09/04/12 22:14	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/06/12 12:35	09/07/12 11:07	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/31/12 09:33	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/31/12 09:33	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/31/12 09:33	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/31/12 09:33	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/31/12 09:33	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/31/12 09:33	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/31/12 09:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/31/12 09:33	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/31/12 09:33	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/31/12 09:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/31/12 09:33	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/31/12 09:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/31/12 09:33	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/31/12 09:33	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/31/12 09:33	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/31/12 09:33	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/31/12 09:33	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/31/12 09:33	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/31/12 09:33	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/31/12 09:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/31/12 09:33	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/31/12 09:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/31/12 09:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/31/12 09:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/31/12 09:33	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Sample: FB **Lab ID: 92129079016** Collected: 08/23/12 00:00 Received: 08/24/12 14:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/31/12 09:33	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/31/12 09:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/31/12 09:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/31/12 09:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/31/12 09:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/31/12 09:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/31/12 09:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/31/12 09:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/31/12 09:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/31/12 09:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/31/12 09:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/31/12 09:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/31/12 09:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/31/12 09:33	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/31/12 09:33	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/31/12 09:33	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/31/12 09:33	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/31/12 09:33	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/31/12 09:33	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/31/12 09:33	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/31/12 09:33	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/31/12 09:33	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/31/12 09:33	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/31/12 09:33	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/31/12 09:33	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/31/12 09:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/31/12 09:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/31/12 09:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/31/12 09:33	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/31/12 09:33	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/31/12 09:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/31/12 09:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/31/12 09:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/31/12 09:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/31/12 09:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/31/12 09:33	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/31/12 09:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/31/12 09:33	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/31/12 09:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/31/12 09:33	460-00-4	
Dibromofluoromethane (S)	120	%	70-130		1		08/31/12 09:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		08/31/12 09:33	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/31/12 09:33	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Sample: EB **Lab ID: 92129079017** Collected: 08/23/12 00:00 Received: 08/24/12 14:32 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	08/31/12 22:15	09/04/12 22:21	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:21	7440-38-2	
Barium	ND	ug/L	100	5.0	1	08/31/12 22:15	09/04/12 22:21	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/31/12 22:15	09/04/12 22:21	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/31/12 22:15	09/04/12 22:21	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:21	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:21	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:21	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:21	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/31/12 22:15	09/04/12 22:21	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/31/12 22:15	09/04/12 22:21	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/31/12 22:15	09/04/12 22:21	7440-22-4	
Thallium	**7.6**	ug/L	5.5	5.4	1	08/31/12 22:15	09/04/12 22:21	7440-28-0	
Tin	ND	ug/L	100	5.0	1	08/31/12 22:15	09/04/12 22:21	7440-31-5	
Vanadium	ND	ug/L	25.0	5.0	1	08/31/12 22:15	09/04/12 22:21	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/31/12 22:15	09/04/12 22:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	09/06/12 12:35	09/07/12 11:15	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/31/12 09:49	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/31/12 09:49	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/31/12 09:49	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/31/12 09:49	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/31/12 09:49	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/31/12 09:49	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/31/12 09:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/31/12 09:49	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/31/12 09:49	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/31/12 09:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/31/12 09:49	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/31/12 09:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/31/12 09:49	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/31/12 09:49	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/31/12 09:49	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/31/12 09:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/31/12 09:49	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/31/12 09:49	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/31/12 09:49	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/31/12 09:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/31/12 09:49	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/31/12 09:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/31/12 09:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/31/12 09:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/31/12 09:49	106-46-7	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Sample: EB **Lab ID: 92129079017** Collected: 08/23/12 00:00 Received: 08/24/12 14:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/31/12 09:49	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/31/12 09:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/31/12 09:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/31/12 09:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/31/12 09:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/31/12 09:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/31/12 09:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/31/12 09:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/31/12 09:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/31/12 09:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/31/12 09:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/31/12 09:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/31/12 09:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/31/12 09:49	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/31/12 09:49	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/31/12 09:49	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/31/12 09:49	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/31/12 09:49	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/31/12 09:49	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/31/12 09:49	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/31/12 09:49	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/31/12 09:49	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/31/12 09:49	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/31/12 09:49	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/31/12 09:49	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/31/12 09:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/31/12 09:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/31/12 09:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/31/12 09:49	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/31/12 09:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/31/12 09:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/31/12 09:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/31/12 09:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/31/12 09:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/31/12 09:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/31/12 09:49	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/31/12 09:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/31/12 09:49	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/31/12 09:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/31/12 09:49	460-00-4	
Dibromofluoromethane (S)	123	%	70-130		1		08/31/12 09:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	118	%	70-130		1		08/31/12 09:49	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		08/31/12 09:49	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Sample: TB **Lab ID: 92129079018** Collected: 08/23/12 00:00 Received: 08/24/12 14:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		08/31/12 10:05	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/31/12 10:05	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/31/12 10:05	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/31/12 10:05	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/31/12 10:05	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/31/12 10:05	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/31/12 10:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/31/12 10:05	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/31/12 10:05	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/31/12 10:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/31/12 10:05	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/31/12 10:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/31/12 10:05	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/31/12 10:05	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/31/12 10:05	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/31/12 10:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/31/12 10:05	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/31/12 10:05	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/31/12 10:05	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/31/12 10:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/31/12 10:05	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/31/12 10:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/31/12 10:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/31/12 10:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/31/12 10:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/31/12 10:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/31/12 10:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/31/12 10:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/31/12 10:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/31/12 10:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/31/12 10:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/31/12 10:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/31/12 10:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/31/12 10:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/31/12 10:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/31/12 10:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/31/12 10:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/31/12 10:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/31/12 10:05	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/31/12 10:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/31/12 10:05	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/31/12 10:05	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/31/12 10:05	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/31/12 10:05	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/31/12 10:05	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/31/12 10:05	75-09-2	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Sample: TB **Lab ID: 92129079018** Collected: 08/23/12 00:00 Received: 08/24/12 14:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/31/12 10:05	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/31/12 10:05	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		08/31/12 10:05	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/31/12 10:05	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/31/12 10:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/31/12 10:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/31/12 10:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/31/12 10:05	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/31/12 10:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/31/12 10:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/31/12 10:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/31/12 10:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/31/12 10:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/31/12 10:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/31/12 10:05	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/31/12 10:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/31/12 10:05	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/31/12 10:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/31/12 10:05	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		08/31/12 10:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		08/31/12 10:05	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/31/12 10:05	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

QC Batch: MERP/4489 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 92129079016, 92129079017

METHOD BLANK: 828453 — Matrix: Water
Associated Lab Samples: 92129079016, 92129079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/07/12 11:01	

LABORATORY CONTROL SAMPLE: 828454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.1	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 828455 828456

Parameter	Units	92129079016 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	2.1	2.2	84	88	75-125	5	25	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

QC Batch: MPRP/11364
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92129079016, 92129079017

METHOD BLANK: 823477
Matrix: Water
Associated Lab Samples: 92129079016, 92129079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	09/04/12 22:08	
Arsenic	ug/L	ND	10.0	09/04/12 22:08	
Barium	ug/L	ND	100	09/04/12 22:08	
Beryllium	ug/L	ND	1.0	09/04/12 22:08	
Cadmium	ug/L	ND	1.0	09/04/12 22:08	
Chromium	ug/L	ND	10.0	09/04/12 22:08	
Cobalt	ug/L	ND	10.0	09/04/12 22:08	
Copper	ug/L	ND	10.0	09/04/12 22:08	
Lead	ug/L	ND	10.0	09/04/12 22:08	
Nickel	ug/L	ND	50.0	09/04/12 22:08	
Selenium	ug/L	ND	10.0	09/04/12 22:08	
Silver	ug/L	ND	10.0	09/04/12 22:08	
Thallium	ug/L	ND	5.5	09/04/12 22:08	
Tin	ug/L	ND	100	09/04/12 22:08	
Vanadium	ug/L	ND	25.0	09/04/12 22:08	
Zinc	ug/L	ND	10.0	09/04/12 22:08	

LABORATORY CONTROL SAMPLE: 823478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	461	92	80-120	
Arsenic	ug/L	500	463	93	80-120	
Barium	ug/L	500	454	91	80-120	
Beryllium	ug/L	500	468	94	80-120	
Cadmium	ug/L	500	470	94	80-120	
Chromium	ug/L	500	480	96	80-120	
Cobalt	ug/L	500	464	93	80-120	
Copper	ug/L	500	459	92	80-120	
Lead	ug/L	500	465	93	80-120	
Nickel	ug/L	500	467	93	80-120	
Selenium	ug/L	500	461	92	80-120	
Silver	ug/L	250	230	92	80-120	
Thallium	ug/L	500	444	89	80-120	
Tin	ug/L	500	469	94	80-120	
Vanadium	ug/L	500	470	94	80-120	
Zinc	ug/L	500	459	92	80-120	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

MATRIX SPIKE SAMPLE: 823479

Parameter	Units	92129079016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	494	98	75-125	
Arsenic	ug/L	ND	500	491	98	75-125	
Barium	ug/L	ND	500	487	97	75-125	
Beryllium	ug/L	ND	500	502	100	75-125	
Cadmium	ug/L	ND	500	504	101	75-125	
Chromium	ug/L	ND	500	520	104	75-125	
Cobalt	ug/L	ND	500	499	100	75-125	
Copper	ug/L	ND	500	492	98	75-125	
Lead	ug/L	ND	500	495	99	75-125	
Nickel	ug/L	ND	500	501	100	75-125	
Selenium	ug/L	ND	500	483	96	75-125	
Silver	ug/L	ND	250	247	99	75-125	
Thallium	ug/L	7.4	500	473	93	75-125	
Tin	ug/L	ND	500	501	100	75-125	
Vanadium	ug/L	ND	500	504	101	75-125	
Zinc	ug/L	ND	500	493	98	75-125	

SAMPLE DUPLICATE: 823481

Parameter	Units	92129079017 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	ND	ND		25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	7.6	ND		25	
Tin	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

QC Batch: MSV/20232 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92129079016, 92129079017, 92129079018

METHOD BLANK: 823933 Matrix: Water
Associated Lab Samples: 92129079016, 92129079017, 92129079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/30/12 23:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/30/12 23:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	08/30/12 23:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/30/12 23:35	
1,1-Dichloroethane	ug/L	ND	5.0	08/30/12 23:35	
1,1-Dichloroethene	ug/L	ND	5.0	08/30/12 23:35	
1,1-Dichloropropene	ug/L	ND	5.0	08/30/12 23:35	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/30/12 23:35	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	08/30/12 23:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	08/30/12 23:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/30/12 23:35	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/30/12 23:35	
1,2-Dichloroethane	ug/L	ND	1.0	08/30/12 23:35	
1,2-Dichloropropane	ug/L	ND	1.0	08/30/12 23:35	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/30/12 23:35	
1,3-Dichloropropane	ug/L	ND	1.0	08/30/12 23:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/30/12 23:35	
2,2-Dichloropropane	ug/L	ND	15.0	08/30/12 23:35	
2-Butanone (MEK)	ug/L	ND	100	08/30/12 23:35	
2-Hexanone	ug/L	ND	50.0	08/30/12 23:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	08/30/12 23:35	
Acetone	ug/L	ND	100	08/30/12 23:35	
Acetonitrile	ug/L	ND	55.0	08/30/12 23:35	
Acrolein	ug/L	ND	53.0	08/30/12 23:35	
Acrylonitrile	ug/L	ND	200	08/30/12 23:35	
Allyl chloride	ug/L	ND	10.0	08/30/12 23:35	
Benzene	ug/L	ND	1.0	08/30/12 23:35	
Bromochloromethane	ug/L	ND	3.0	08/30/12 23:35	
Bromodichloromethane	ug/L	ND	1.0	08/30/12 23:35	
Bromoform	ug/L	ND	3.0	08/30/12 23:35	
Bromomethane	ug/L	ND	10.0	08/30/12 23:35	
Carbon disulfide	ug/L	ND	100	08/30/12 23:35	
Carbon tetrachloride	ug/L	ND	1.0	08/30/12 23:35	
Chlorobenzene	ug/L	ND	3.0	08/30/12 23:35	
Chloroethane	ug/L	ND	10.0	08/30/12 23:35	
Chloroform	ug/L	ND	5.0	08/30/12 23:35	
Chloromethane	ug/L	ND	1.0	08/30/12 23:35	
Chloroprene	ug/L	ND	20.0	08/30/12 23:35	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/30/12 23:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/30/12 23:35	
Dibromochloromethane	ug/L	ND	3.0	08/30/12 23:35	
Dibromomethane	ug/L	ND	10.0	08/30/12 23:35	
Dichlorodifluoromethane	ug/L	ND	5.0	08/30/12 23:35	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

METHOD BLANK: 823933 Matrix: Water

Associated Lab Samples: 92129079016, 92129079017, 92129079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	08/30/12 23:35	
Ethylbenzene	ug/L	ND	1.0	08/30/12 23:35	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	08/30/12 23:35	
Iodomethane	ug/L	ND	10.0	08/30/12 23:35	
Isobutanol	ug/L	ND	100	08/30/12 23:35	
Methacrylonitrile	ug/L	ND	100	08/30/12 23:35	
Methyl methacrylate	ug/L	ND	30.0	08/30/12 23:35	
Methylene Chloride	ug/L	ND	1.0	08/30/12 23:35	
Naphthalene	ug/L	ND	10.0	08/30/12 23:35	
Propionitrile	ug/L	ND	150	08/30/12 23:35	
Styrene	ug/L	ND	1.0	08/30/12 23:35	
Tetrachloroethene	ug/L	ND	1.0	08/30/12 23:35	
Toluene	ug/L	ND	1.0	08/30/12 23:35	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/30/12 23:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/30/12 23:35	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/30/12 23:35	
Trichloroethene	ug/L	ND	1.0	08/30/12 23:35	
Trichlorofluoromethane	ug/L	ND	1.0	08/30/12 23:35	
Vinyl acetate	ug/L	ND	50.0	08/30/12 23:35	
Vinyl chloride	ug/L	ND	1.0	08/30/12 23:35	
Xylene (Total)	ug/L	ND	5.0	08/30/12 23:35	
1,2-Dichloroethane-d4 (S)	%	117	70-130	08/30/12 23:35	
4-Bromofluorobenzene (S)	%	99	70-130	08/30/12 23:35	
Dibromofluoromethane (S)	%	112	70-130	08/30/12 23:35	
Toluene-d8 (S)	%	102	70-130	08/30/12 23:35	

LABORATORY CONTROL SAMPLE: 823934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	70-130	
1,1,1-Trichloroethane	ug/L	50	47.4	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.7	89	70-130	
1,1,2-Trichloroethane	ug/L	50	47.1	94	70-130	
1,1-Dichloroethane	ug/L	50	51.6	103	70-130	
1,1-Dichloroethene	ug/L	50	53.2	106	70-132	
1,1-Dichloropropene	ug/L	50	50.0	100	70-130	
1,2,3-Trichloropropane	ug/L	50	48.5	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.0	90	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	44.7	89	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	45.6	91	70-130	
1,2-Dichloroethane	ug/L	50	41.3	83	70-130	
1,2-Dichloropropane	ug/L	50	45.6	91	70-130	
1,3-Dichlorobenzene	ug/L	50	45.6	91	70-130	
1,3-Dichloropropane	ug/L	50	45.6	91	70-130	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

LABORATORY CONTROL SAMPLE: 823934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	44.1	88	70-130	
2,2-Dichloropropane	ug/L	50	33.9	68	58-145	
2-Butanone (MEK)	ug/L	100	105	105	70-145	
2-Hexanone	ug/L	100	100	100	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.5J	100	70-140	
Acetone	ug/L	100	111	111	50-175	
Acetonitrile	ug/L	500	573	115	70-130	
Acrolein	ug/L	250	242	97	70-130	
Acrylonitrile	ug/L	250	257	103	70-143	
Allyl chloride	ug/L	50	52.5	105	70-130	
Benzene	ug/L	50	50.9	102	70-130	
Bromochloromethane	ug/L	50	46.5	93	70-130	
Bromodichloromethane	ug/L	50	46.3	93	70-130	
Bromoform	ug/L	50	48.3	97	70-130	
Bromomethane	ug/L	50	38.0	76	54-130	
Carbon disulfide	ug/L	50	49.3J	99	70-131	
Carbon tetrachloride	ug/L	50	48.5	97	70-132	
Chlorobenzene	ug/L	50	47.0	94	70-130	
Chloroethane	ug/L	50	55.3	111	64-134	F3
Chloroform	ug/L	50	49.1	98	70-130	
Chloromethane	ug/L	50	40.9	82	64-130	F3
Chloroprene	ug/L	50	53.1	106	70-130	
cis-1,2-Dichloroethene	ug/L	50	45.8	92	70-131	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	70-130	
Dibromochloromethane	ug/L	50	46.6	93	70-130	
Dibromomethane	ug/L	50	45.7	91	70-131	
Dichlorodifluoromethane	ug/L	50	33.5	67	56-130	
Ethyl methacrylate	ug/L	50	51.7	103	70-130	
Ethylbenzene	ug/L	50	47.6	95	70-130	
Hexachloro-1,3-butadiene	ug/L	50	44.8	90	70-130	
Iodomethane	ug/L	100	76.8	77	49-180	
Isobutanol	ug/L	1000	1150	115	70-130	
Methacrylonitrile	ug/L	500	471	94	70-130	
Methyl methacrylate	ug/L	50	51.1	102	70-130	
Methylene Chloride	ug/L	50	54.3	109	63-130	
Naphthalene	ug/L	50	48.7	97	70-138	
Propionitrile	ug/L	500	486	97	70-130	
Styrene	ug/L	50	47.5	95	70-130	
Tetrachloroethene	ug/L	50	46.1	92	70-130	
Toluene	ug/L	50	46.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.0	90	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.6	89	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	51.7J	103	70-141	
Trichloroethene	ug/L	50	49.4	99	70-130	
Trichlorofluoromethane	ug/L	50	38.5	77	62-133	
Vinyl acetate	ug/L	100	90.3	90	66-157	
Vinyl chloride	ug/L	50	39.3	79	69-130	
Xylene (Total)	ug/L	150	139	93	70-130	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

LABORATORY CONTROL SAMPLE: 823934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			83	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 823935 823936

Parameter	Units	92129079002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	62.8	64.7	126	129	70-166	3	30	
Benzene	ug/L	ND	50	50	51.8	47.7	104	95	70-148	8	30	
Chlorobenzene	ug/L	ND	50	50	55.4	54.5	111	109	70-146	2	30	
Toluene	ug/L	ND	50	50	57.4	57.9	115	116	70-155	1	30	
Trichloroethene	ug/L	ND	50	50	59.1	58.5	118	117	69-151	1	30	
1,2-Dichloroethane-d4 (S)	%						102	99	70-130			
4-Bromofluorobenzene (S)	%						96	93	70-130			
Dibromofluoromethane (S)	%						100	102	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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QUALIFIERS

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAYNE MSWLF BLANKS
Pace Project No.: 92129935

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92129079016	**FB**	EPA 3010	MPRP/11364	EPA 6010	ICP/10422
92129079017	**EB**	EPA 3010	MPRP/11364	EPA 6010	ICP/10422
92129079016	**FB**	EPA 7470	MERP/4489	EPA 7470	MERC/4401
92129079017	**EB**	EPA 7470	MERP/4489	EPA 7470	MERC/4401
92129079016	**FB**	EPA 8260	MSV/20232		
92129079017	**EB**	EPA 8260	MSV/20232		
92129079018	**TB**	EPA 8260	MSV/20232		

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Emailed 8/31/12 - Redesignate Samples 92129079016 (FB)
ONTO separate report " 17 (EB)
" 18 (TB)

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 1

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:	Wayne MSWLF Blanks	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 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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N			8260 App II VOCs	Metals-App II	Cyanide						
																			N	N	N	N	N	N	N	N	N	N	N
1	EB	WT	G			8/23/12			4			1	3								X	X							
2	FB	WT	G			8/23/12			4			1	3								X	X							
3	TB	WT	G			Pace Filled			2				2								X								
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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
DI H_2O Provided By Pace	/ MESCO	8/ /12					
EB - Bailer water Rinsed through							
D. Bailer (Geotech) stuffed w/ twine							
& nitrile glove.							

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jonathan Pfohl		
SIGNATURE of SAMPLER:		DATE Signed:	8/23/12

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

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September 10, 2012

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

RE: Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2012. 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

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CERTIFICATIONS

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

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

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SAMPLE SUMMARY

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92129069002	**MW-2**	Water	08/21/12 17:10	08/23/12 15:35
92129069004	**MW-5**	Water	08/21/12 12:00	08/23/12 15:35

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SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92129069002	**MW-2**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A
92129069004	**MW-5**	EPA 6010	JMW	16	PASI-A
		EPA 7470	SH1	1	PASI-A

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

Sample: MW-2 **Lab ID: 92129069002** Collected: 08/21/12 17:10 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony, Dissolved	**3.0J**	ug/L	5.0	2.6	1	09/05/12 06:40	09/06/12 20:09	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	09/05/12 06:40	09/06/12 20:09	7440-38-2	
Barium, Dissolved	**110**	ug/L	5.0	0.20	1	09/05/12 06:40	09/06/12 20:09	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.10	1	09/05/12 06:40	09/06/12 20:09	7440-41-7	
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	09/05/12 06:40	09/06/12 20:09	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.40	1	09/05/12 06:40	09/06/12 20:09	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.60	1	09/05/12 06:40	09/06/12 20:09	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	0.30	1	09/05/12 06:40	09/06/12 20:09	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	4.0	1	09/05/12 06:40	09/06/12 20:09	7439-92-1	
Nickel, Dissolved	ND	ug/L	5.0	1.7	1	09/05/12 06:40	09/06/12 20:09	7440-02-0	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	09/05/12 06:40	09/06/12 20:09	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	0.10	1	09/05/12 06:40	09/06/12 20:09	7440-22-4	
Thallium, Dissolved	ND	ug/L	10.0	3.0	1	09/05/12 06:40	09/06/12 20:09	7440-28-0	
Tin, Dissolved	ND	ug/L	5.0	1.8	1	09/05/12 06:40	09/06/12 20:09	7440-31-5	
Vanadium, Dissolved	ND	ug/L	5.0	0.20	1	09/05/12 06:40	09/06/12 20:09	7440-62-2	
Zinc, Dissolved	**3.6J**	ug/L	10.0	0.40	1	09/05/12 06:40	09/06/12 20:09	7440-66-6	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.090	1	09/07/12 10:50	09/07/12 14:00	7439-97-6	M1

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

Sample: MW-5 **Lab ID: 92129069004** Collected: 08/21/12 12:00 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony, Dissolved	ND	ug/L	5.0	2.6	1	09/05/12 06:40	09/06/12 20:15	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.7	1	09/05/12 06:40	09/06/12 20:15	7440-38-2	
Barium, Dissolved	**42.3**	ug/L	5.0	0.20	1	09/05/12 06:40	09/06/12 20:15	7440-39-3	
Beryllium, Dissolved	**0.79J**	ug/L	1.0	0.10	1	09/05/12 06:40	09/06/12 20:15	7440-41-7	
Cadmium, Dissolved	ND	ug/L	1.0	0.50	1	09/05/12 06:40	09/06/12 20:15	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.40	1	09/05/12 06:40	09/06/12 20:15	7440-47-3	
Cobalt, Dissolved	**0.94J**	ug/L	5.0	0.60	1	09/05/12 06:40	09/06/12 20:15	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	0.30	1	09/05/12 06:40	09/06/12 20:15	7440-50-8	
Lead, Dissolved	ND	ug/L	5.0	4.0	1	09/05/12 06:40	09/06/12 20:15	7439-92-1	
Nickel, Dissolved	**1.8J**	ug/L	5.0	1.7	1	09/05/12 06:40	09/06/12 20:15	7440-02-0	
Selenium, Dissolved	ND	ug/L	10.0	3.8	1	09/05/12 06:40	09/06/12 20:15	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	0.10	1	09/05/12 06:40	09/06/12 20:15	7440-22-4	
Thallium, Dissolved	ND	ug/L	10.0	3.0	1	09/05/12 06:40	09/06/12 20:15	7440-28-0	
Tin, Dissolved	ND	ug/L	5.0	1.8	1	09/05/12 06:40	09/06/12 20:15	7440-31-5	
Vanadium, Dissolved	ND	ug/L	5.0	0.20	1	09/05/12 06:40	09/06/12 20:15	7440-62-2	
Zinc, Dissolved	**13.1**	ug/L	10.0	0.40	1	09/05/12 06:40	09/06/12 20:15	7440-66-6	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.090	1	09/07/12 10:50	09/07/12 14:05	7439-97-6	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

QC Batch: MERP/4495
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 92129069002, 92129069004

METHOD BLANK: 829430
Matrix: Water
Associated Lab Samples: 92129069002, 92129069004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	09/07/12 13:55	

LABORATORY CONTROL SAMPLE: 829431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	2.5	2.2	89	80-120	

MATRIX SPIKE SAMPLE: 829432

Parameter	Units	92129069002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	2.5	1.3	53	75-125	M1

SAMPLE DUPLICATE: 829433

Parameter	Units	92129069004 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury, Dissolved	ug/L	ND	ND		25	

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

QC Batch: MPRP/11413 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET Filtered
Associated Lab Samples: 92129069002, 92129069004

METHOD BLANK: 827487 | Matrix: Water
Associated Lab Samples: 92129069002, 92129069004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Arsenic, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Barium, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Beryllium, Dissolved	ug/L	ND	1.0	09/06/12 19:55	
Cadmium, Dissolved	ug/L	ND	1.0	09/06/12 19:55	
Chromium, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Cobalt, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Copper, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Lead, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Nickel, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Selenium, Dissolved	ug/L	ND	10.0	09/06/12 19:55	
Silver, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Thallium, Dissolved	ug/L	ND	10.0	09/06/12 19:55	
Tin, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Vanadium, Dissolved	ug/L	ND	5.0	09/06/12 19:55	
Zinc, Dissolved	ug/L	2.0J	10.0	09/06/12 19:55	

LABORATORY CONTROL SAMPLE: 827488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	500	438	88	80-120	
Arsenic, Dissolved	ug/L	500	446	89	80-120	
Barium, Dissolved	ug/L	500	438	88	80-120	
Beryllium, Dissolved	ug/L	500	440	88	80-120	
Cadmium, Dissolved	ug/L	500	438	88	80-120	
Chromium, Dissolved	ug/L	500	428	86	80-120	
Cobalt, Dissolved	ug/L	500	431	86	80-120	
Copper, Dissolved	ug/L	500	445	89	80-120	
Lead, Dissolved	ug/L	500	433	87	80-120	
Nickel, Dissolved	ug/L	500	439	88	80-120	
Selenium, Dissolved	ug/L	500	440	88	80-120	
Silver, Dissolved	ug/L	250	218	87	80-120	
Thallium, Dissolved	ug/L	500	439	88	80-120	
Tin, Dissolved	ug/L	500	440	88	80-120	
Vanadium, Dissolved	ug/L	500	425	85	80-120	
Zinc, Dissolved	ug/L	500	428	86	80-120	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

MATRIX SPIKE SAMPLE: 827489

Parameter	Units	92129069002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	3.0J	500	418	83	75-125	
Arsenic, Dissolved	ug/L	ND	500	440	88	75-125	
Barium, Dissolved	ug/L	110	500	516	81	75-125	
Beryllium, Dissolved	ug/L	ND	500	416	83	75-125	
Cadmium, Dissolved	ug/L	ND	500	412	82	75-125	
Chromium, Dissolved	ug/L	ND	500	398	80	75-125	
Cobalt, Dissolved	ug/L	ND	500	394	79	75-125	
Copper, Dissolved	ug/L	ND	500	418	84	75-125	
Lead, Dissolved	ug/L	ND	500	392	78	75-125	
Nickel, Dissolved	ug/L	ND	500	401	80	75-125	
Selenium, Dissolved	ug/L	ND	500	432	86	75-125	
Silver, Dissolved	ug/L	ND	250	206	82	75-125	
Thallium, Dissolved	ug/L	ND	500	389	78	75-125	
Tin, Dissolved	ug/L	ND	500	406	81	75-125	
Vanadium, Dissolved	ug/L	ND	500	408	82	75-125	
Zinc, Dissolved	ug/L	3.6J	500	398	79	75-125	

SAMPLE DUPLICATE: 827491

Parameter	Units	92129069004 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony, Dissolved	ug/L	ND	ND		20	
Arsenic, Dissolved	ug/L	ND	ND		20	
Barium, Dissolved	ug/L	42.3	42.2	0	20	
Beryllium, Dissolved	ug/L	0.79J	0.50J		20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Chromium, Dissolved	ug/L	ND	ND		20	
Cobalt, Dissolved	ug/L	0.94J	0.73J		20	
Copper, Dissolved	ug/L	ND	ND		20	
Lead, Dissolved	ug/L	ND	ND		20	
Nickel, Dissolved	ug/L	1.8J	1.8J		20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	ND		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Tin, Dissolved	ug/L	ND	ND		20	
Vanadium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	13.1	12.7	3	20	

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QUALIFIERS

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAYNE CLOSED MSWLF D METALS
Pace Project No.: 92129069

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92129069002	**MW-2**	EPA 3010	MPRP/11413	EPA 6010	ICP/10457
92129069004	**MW-5**	EPA 3010	MPRP/11413	EPA 6010	ICP/10457
92129069002	**MW-2**	EPA 7470	MERP/4495	EPA 7470	MERC/4404
92129069004	**MW-5**	EPA 7470	MERP/4495	EPA 7470	MERC/4404

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HOLD until Instructed otherwise

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 1

Section A Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Wayne Closed MSWLF D Metals
Container Order Number:	

Section C Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
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 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	Dissolved Metals-App 2 (Lab Filtered) Y										9212069 ~~9212~~ 8/23
1	MW-1	WT	G			8/23/12	9:35		1	1									x										001
2	MW-2	WT	G			8/23/12	5:10		1	1									x										002
3	MW-3	WT	G				4:30		1	1									x										003
4																													
5	MW-5	WT	G				12:00		1	1									x										004
6	MW-6	WT	G				1:35		1	1									x										005
7	MW-7	WT	G				2:50		1	1									x										006
8	MW-8	WT	G			8/23/12	11:10		1	1									x										007
9	MW-9	WT	G				10:41		1	1									x										008
10	MW-10	WT	G				10:05		1	1									x										009
11	MW-11	WT	G			8/23/12	3:50		1	1									x										010
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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	(MESCO	8/23/12	8AM		8/23/12	8:54				
	Lefton Site									
		8/23/12	15:35	Yanell Chavez Pace	8/23/12	15:35	4.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: DATE Signed: 8/23/12

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Engineering Services Project # 92129069

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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 (T1101) T1102 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 4.3 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: 8/23/12

Temp should be above freezing to 6°C

		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:	☐Yes ☑No ☐N/A	12. NO Time on Samples
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
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	Initial when completed
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.
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: JG **Date:** 8/23/12 **SRF Review:** JG **Date:** 8/24/12

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)

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Friday, September 7, 2012

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Wayne Closed MSWLF
ENCO Workorder(s): C209022,C209743

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory between Wednesday, August 22, 2012 and Thursday, August 23, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 84.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1 | **Lab ID: C209022-01** | **Sampled: 08/22/12 09:35** | **Received: 08/23/12 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/29/12	10/08/12	08/29/12	11:11	8/30/2012 12:36
EPA 8082A	08/22/13	10/08/12	08/29/12	11:15	8/30/2012 12:36
EPA 8151A	08/29/12	10/06/12	08/27/12	10:50	8/28/2012 20:35
EPA 8270D	08/29/12	10/06/12	08/27/12	08:52	9/6/2012 02:08

Client ID: MW-1 | **Lab ID: C209022-01RE1** | **Sampled: 08/22/12 09:35** | **Received: 08/23/12 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/29/12	10/06/12	08/27/12	08:52	9/6/2012 16:01

Client ID: MW-8 | **Lab ID: C209022-02** | **Sampled: 08/22/12 11:10** | **Received: 08/23/12 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/29/12	10/08/12	08/29/12	11:11	8/30/2012 12:49
EPA 8082A	08/22/13	10/08/12	08/29/12	11:15	8/30/2012 12:49
EPA 8151A	08/29/12	10/06/12	08/27/12	10:50	8/28/2012 21:01
EPA 8270D	08/29/12	10/06/12	08/27/12	08:52	9/6/2012 02:38

Client ID: MW-8 | **Lab ID: C209022-02RE1** | **Sampled: 08/22/12 11:10** | **Received: 08/23/12 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/29/12	10/06/12	08/27/12	08:52	9/6/2012 16:31

Client ID: MW-9 | **Lab ID: C209022-03** | **Sampled: 08/22/12 10:40** | **Received: 08/23/12 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/29/12	10/08/12	08/29/12	11:11	8/30/2012 14:09
EPA 8082A	08/22/13	10/08/12	08/29/12	11:15	8/30/2012 14:09
EPA 8151A	08/29/12	10/06/12	08/27/12	10:50	8/28/2012 21:26
EPA 8270D	08/29/12	10/06/12	08/27/12	08:52	9/6/2012 03:08

Client ID: MW-9 | **Lab ID: C209022-03RE1** | **Sampled: 08/22/12 10:40** | **Received: 08/23/12 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/29/12	10/06/12	08/27/12	08:52	9/6/2012 17:00

Client ID: MW-10 | **Lab ID: C209022-04** | **Sampled: 08/22/12 10:05** | **Received: 08/23/12 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/29/12	10/08/12	08/29/12	11:11	8/30/2012 13:42
EPA 8082A	08/22/13	10/08/12	08/29/12	11:15	8/30/2012 13:42
EPA 8151A	08/29/12	10/06/12	08/27/12	10:50	8/28/2012 21:52
EPA 8270D	08/29/12	10/06/12	08/27/12	08:52	9/6/2012 03:39

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Client ID: MW-10	Lab ID: C209022-04RE1	Sampled: 08/22/12 10:05	Received: 08/23/12 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/29/12	10/06/12	08/27/12	08:52	9/6/2012 17:30

Client ID: MW-2	Lab ID: C209743-01	Sampled: 08/21/12 17:10	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/28/12	10/01/12	08/22/12	14:04	8/24/2012 15:55
EPA 8082A	08/21/13	10/01/12	08/22/12	14:06	8/24/2012 15:55
EPA 8151A	08/28/12	10/06/12	08/27/12	10:50	8/28/2012 17:33
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/5/2012 22:35

Client ID: MW-2	Lab ID: C209743-01RE1	Sampled: 08/21/12 17:10	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 12:31

Client ID: MW-3	Lab ID: C209743-02	Sampled: 08/21/12 16:30	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/28/12	10/01/12	08/22/12	14:04	8/24/2012 16:08
EPA 8082A	08/21/13	10/01/12	08/22/12	14:06	8/24/2012 16:08
EPA 8151A	08/28/12	10/06/12	08/27/12	10:50	8/28/2012 17:59
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/5/2012 23:05

Client ID: MW-3	Lab ID: C209743-02RE1	Sampled: 08/21/12 16:30	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 13:01

Client ID: MW-4	Lab ID: C209743-03	Sampled: 08/21/12 14:10	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/28/12	10/01/12	08/22/12	14:04	8/24/2012 16:22
EPA 8082A	08/21/13	10/01/12	08/22/12	14:06	8/24/2012 16:22
EPA 8151A	08/28/12	10/06/12	08/27/12	10:50	8/28/2012 18:25
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/5/2012 23:35

Client ID: MW-4	Lab ID: C209743-03RE1	Sampled: 08/21/12 14:10	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 13:31

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Client ID: MW-5	Lab ID: C209743-04	Sampled: 08/21/12 12:00	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/28/12	10/01/12	08/22/12	14:04	8/24/2012 16:48
EPA 8082A	08/21/13	10/01/12	08/22/12	14:06	8/24/2012 16:48
EPA 8151A	08/28/12	10/06/12	08/27/12	10:50	8/28/2012 18:51
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 00:06

Client ID: MW-5	Lab ID: C209743-04RE1	Sampled: 08/21/12 12:00	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 14:01

Client ID: MW-6	Lab ID: C209743-05	Sampled: 08/21/12 13:35	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/28/12	10/01/12	08/22/12	14:04	8/24/2012 17:01
EPA 8082A	08/21/13	10/01/12	08/22/12	14:06	8/24/2012 17:01
EPA 8151A	08/28/12	10/06/12	08/27/12	10:50	8/28/2012 19:17
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 00:36

Client ID: MW-6	Lab ID: C209743-05RE1	Sampled: 08/21/12 13:35	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 14:31

Client ID: MW-7	Lab ID: C209743-06	Sampled: 08/21/12 14:50	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/28/12	10/01/12	08/22/12	14:04	8/24/2012 17:15
EPA 8082A	08/21/13	10/01/12	08/22/12	14:06	8/24/2012 17:15
EPA 8151A	08/28/12	10/06/12	08/27/12	10:50	8/28/2012 19:43
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 01:06

Client ID: MW-7	Lab ID: C209743-06RE1	Sampled: 08/21/12 14:50	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 15:01

Client ID: MW-11	Lab ID: C209743-07	Sampled: 08/21/12 15:50	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	08/28/12	10/01/12	08/22/12	14:04	8/24/2012 17:28
EPA 8082A	08/21/13	10/01/12	08/22/12	14:06	8/24/2012 17:28
EPA 8151A	08/28/12	10/06/12	08/27/12	10:50	8/28/2012 20:09
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 01:37

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Client ID: MW-11	Lab ID: C209743-07RE1	Sampled: 08/21/12 15:50	Received: 08/22/12 09:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	08/28/12	10/06/12	08/27/12	08:52	9/6/2012 15:31

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-2 **Lab ID: C209743-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
3 & 4-Methylphenol	2.9	J	1	1.6	10	10	ug/L	EPA 8270D	

Client ID: MW-4 **Lab ID: C209743-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Bis(2-ethylhexyl)phthalate	2.0	J	1	1.7	5.0	15	ug/L	EPA 8270D	
Diethylphthalate	3.8	J	1	2.1	10	6000	ug/L	EPA 8270D	

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ANALYTICAL RESULTS

Description: MW-1 **Lab Sample ID:** C209022-01 **Received:** 08/23/12 10:30
Matrix: Ground Water **Sampled:** 08/22/12 09:35 **Work Order:** C209022
Project: Wayne Closed MSWLF **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/06/12 02:08	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 02:08	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 02:08	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/06/12 02:08	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 02:08	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/06/12 02:08	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/06/12 02:08	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 02:08	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/06/12 02:08	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 02:08	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/06/12 02:08	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/06/12 02:08	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/06/12 02:08	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/06/12 02:08	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 02:08	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 02:08	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/06/12 02:08	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/06/12 02:08	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 02:08	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	

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Description: MW-1 | **Lab Sample ID:** C209022-01 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 09:35 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/06/12 02:08	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/06/12 02:08	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/06/12 02:08	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 02:08	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 02:08	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 02:08	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 02:08	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 02:08	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 02:08	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 02:08	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 16:01	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/06/12 02:08	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 02:08	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/06/12 02:08	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 02:08	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 02:08	DFM	

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Description: MW-1 | **Lab Sample ID:** C209022-01 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 09:35 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/06/12 02:08	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 02:08	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:08	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 02:08	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 02:08	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:08	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:08	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 02:08	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:08	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 02:08	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*73*	*1*	*100*	*73 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/06/12 02:08*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*85 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 02:08*	*DFM*	
2-Fluorophenol	*59*	*1*	*100*	*59 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/06/12 02:08*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*77 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 02:08*	*DFM*	
Phenol-d5	*49*	*1*	*100*	*49 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/06/12 02:08*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*87 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/06/12 02:08*	*DFM*	

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Description: MW-1 | **Lab Sample ID:** C209022-01 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 09:35 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/30/12 12:36	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/30/12 12:36	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/30/12 12:36	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/30/12 12:36	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/30/12 12:36	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/30/12 12:36	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/30/12 12:36	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/30/12 12:36	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/30/12 12:36	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/30/12 12:36	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/30/12 12:36	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/30/12 12:36	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/30/12 12:36	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/30/12 12:36	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/30/12 12:36	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/30/12 12:36	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/30/12 12:36	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/30/12 12:36	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/30/12 12:36	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/30/12 12:36	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/30/12 12:36	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.89*	*1*	*1.00*	*89 %*	*44-134*	*2H29017*	*EPA 8081B*	*08/30/12 12:36*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*111 %*	*37-149*	*2H29017*	*EPA 8081B*	*08/30/12 12:36*	*MSZ*	

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Description: MW-1 | **Lab Sample ID:** C209022-01 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 09:35 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/30/12 12:36	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/30/12 12:36	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/30/12 12:36	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/30/12 12:36	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/30/12 12:36	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/30/12 12:36	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.89*	*1*	*1.00*	*89 %*	*45-151*	*2H29018*	*EPA 8082A*	*08/30/12 12:36*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*111 %*	*42-159*	*2H29018*	*EPA 8082A*	*08/30/12 12:36*	*MSZ*	

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Description: MW-1 | **Lab Sample ID:** C209022-01 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 09:35 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 20:35	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 20:35	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 20:35	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 20:35	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 20:35	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*108 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 20:35*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-8 | **Lab Sample ID:** C209022-02 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 11:10 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/06/12 02:38	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 02:38	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 02:38	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/06/12 02:38	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 02:38	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/06/12 02:38	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/06/12 02:38	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 02:38	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/06/12 02:38	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 02:38	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/06/12 02:38	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/06/12 02:38	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/06/12 02:38	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/06/12 02:38	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 02:38	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 02:38	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/06/12 02:38	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/06/12 02:38	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 02:38	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:38	DFM	

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Description: MW-8 | **Lab Sample ID:** C209022-02 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 11:10 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/06/12 02:38	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/06/12 02:38	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/06/12 02:38	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 02:38	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 02:38	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 02:38	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 02:38	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 02:38	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 02:38	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 02:38	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 16:31	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/06/12 02:38	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 02:38	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/06/12 02:38	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 02:38	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 02:38	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/06/12 02:38	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	

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Description: MW-8 | **Lab Sample ID:** C209022-02 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 11:10 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 02:38	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 02:38	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 02:38	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 02:38	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 02:38	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 02:38	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 02:38	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 02:38	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 02:38	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*80*	*1*	*100*	*80 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/06/12 02:38*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*90 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 02:38*	*DFM*	
2-Fluorophenol	*59*	*1*	*100*	*59 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/06/12 02:38*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*83 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 02:38*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/06/12 02:38*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*91 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/06/12 02:38*	*DFM*	

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Description: MW-8 | **Lab Sample ID:** C209022-02 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 11:10 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/30/12 12:49	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/30/12 12:49	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/30/12 12:49	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/30/12 12:49	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/30/12 12:49	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/30/12 12:49	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/30/12 12:49	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/30/12 12:49	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/30/12 12:49	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/30/12 12:49	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/30/12 12:49	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/30/12 12:49	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/30/12 12:49	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/30/12 12:49	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/30/12 12:49	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/30/12 12:49	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/30/12 12:49	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/30/12 12:49	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/30/12 12:49	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/30/12 12:49	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/30/12 12:49	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.84*	*1*	*1.00*	*84 %*	*44-134*	*2H29017*	*EPA 8081B*	*08/30/12 12:49*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*106 %*	*37-149*	*2H29017*	*EPA 8081B*	*08/30/12 12:49*	*MSZ*	

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Description: MW-8 | **Lab Sample ID:** C209022-02 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 11:10 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/30/12 12:49	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/30/12 12:49	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/30/12 12:49	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/30/12 12:49	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/30/12 12:49	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/30/12 12:49	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.84*	*1*	*1.00*	*84 %*	*45-151*	*2H29018*	*EPA 8082A*	*08/30/12 12:49*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*106 %*	*42-159*	*2H29018*	*EPA 8082A*	*08/30/12 12:49*	*MSZ*	

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Description: MW-8 | **Lab Sample ID:** C209022-02 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 11:10 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 21:01	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 21:01	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 21:01	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 21:01	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 21:01	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*100 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 21:01*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-9 | **Lab Sample ID:** C209022-03 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:40 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/06/12 03:08	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 03:08	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 03:08	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/06/12 03:08	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 03:08	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/06/12 03:08	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/06/12 03:08	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 03:08	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/06/12 03:08	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 03:08	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/06/12 03:08	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/06/12 03:08	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/06/12 03:08	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/06/12 03:08	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 03:08	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 03:08	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/06/12 03:08	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/06/12 03:08	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 03:08	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:08	DFM	

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Description: MW-9 | **Lab Sample ID:** C209022-03 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:40 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/06/12 03:08	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/06/12 03:08	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/06/12 03:08	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 03:08	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 03:08	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 03:08	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 03:08	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 03:08	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 03:08	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 03:08	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 17:00	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/06/12 03:08	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 03:08	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/06/12 03:08	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 03:08	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 03:08	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/06/12 03:08	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	

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Description: MW-9 | **Lab Sample ID:** C209022-03 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:40 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 03:08	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:08	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 03:08	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 03:08	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:08	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:08	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 03:08	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:08	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 03:08	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*82*	*1*	*100*	*82 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/06/12 03:08*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*91 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 03:08*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/06/12 03:08*	*DFM*	
Nitrobenzene-d5	*43*	*1*	*50.0*	*86 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 03:08*	*DFM*	
Phenol-d5	*47*	*1*	*100*	*47 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/06/12 03:08*	*DFM*	
Terphenyl-d14	*47*	*1*	*50.0*	*95 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/06/12 03:08*	*DFM*	

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Description: MW-9 | **Lab Sample ID:** C209022-03 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:40 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/30/12 14:09	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/30/12 14:09	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/30/12 14:09	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/30/12 14:09	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/30/12 14:09	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/30/12 14:09	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/30/12 14:09	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/30/12 14:09	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/30/12 14:09	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/30/12 14:09	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/30/12 14:09	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/30/12 14:09	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/30/12 14:09	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/30/12 14:09	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/30/12 14:09	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/30/12 14:09	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/30/12 14:09	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/30/12 14:09	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/30/12 14:09	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/30/12 14:09	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/30/12 14:09	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.78*	*1*	*1.00*	*78 %*	*44-134*	*2H29017*	*EPA 8081B*	*08/30/12 14:09*	*MSZ*	
Decachlorobiphenyl	*0.70*	*1*	*1.00*	*70 %*	*37-149*	*2H29017*	*EPA 8081B*	*08/30/12 14:09*	*MSZ*	

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Description: MW-9 | **Lab Sample ID:** C209022-03 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:40 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/30/12 14:09	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/30/12 14:09	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/30/12 14:09	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/30/12 14:09	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/30/12 14:09	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/30/12 14:09	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.78*	*1*	*1.00*	*78 %*	*45-151*	*2H29018*	*EPA 8082A*	*08/30/12 14:09*	*MSZ*	
Decachlorobiphenyl	*0.70*	*1*	*1.00*	*70 %*	*42-159*	*2H29018*	*EPA 8082A*	*08/30/12 14:09*	*MSZ*	

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Description: MW-9 | **Lab Sample ID:** C209022-03 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:40 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 21:26	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 21:26	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 21:26	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 21:26	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 21:26	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*98 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 21:26*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-10 | **Lab Sample ID:** C209022-04 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:05 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/06/12 03:39	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 03:39	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 03:39	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/06/12 03:39	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 03:39	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/06/12 03:39	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/06/12 03:39	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 03:39	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/06/12 03:39	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 03:39	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/06/12 03:39	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/06/12 03:39	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/06/12 03:39	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/06/12 03:39	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 03:39	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 03:39	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/06/12 03:39	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/06/12 03:39	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 03:39	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:39	DFM	

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Description: MW-10 | **Lab Sample ID:** C209022-04 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:05 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/06/12 03:39	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/06/12 03:39	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/06/12 03:39	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 03:39	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 03:39	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 03:39	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 03:39	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 03:39	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 03:39	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 03:39	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 17:30	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/06/12 03:39	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 03:39	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/06/12 03:39	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 03:39	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 03:39	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/06/12 03:39	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	

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Description: MW-10 | **Lab Sample ID:** C209022-04 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:05 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 03:39	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 03:39	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 03:39	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 03:39	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 03:39	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 03:39	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 03:39	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 03:39	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 03:39	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*74*	*1*	*100*	*74 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/06/12 03:39*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*89 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 03:39*	*DFM*	
2-Fluorophenol	*57*	*1*	*100*	*57 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/06/12 03:39*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 03:39*	*DFM*	
Phenol-d5	*43*	*1*	*100*	*43 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/06/12 03:39*	*DFM*	
Terphenyl-d14	*42*	*1*	*50.0*	*85 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/06/12 03:39*	*DFM*	

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Description: MW-10 | **Lab Sample ID:** C209022-04 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:05 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/30/12 13:42	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/30/12 13:42	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/30/12 13:42	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/30/12 13:42	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/30/12 13:42	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/30/12 13:42	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/30/12 13:42	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/30/12 13:42	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/30/12 13:42	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/30/12 13:42	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/30/12 13:42	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/30/12 13:42	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/30/12 13:42	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/30/12 13:42	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/30/12 13:42	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/30/12 13:42	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/30/12 13:42	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/30/12 13:42	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/30/12 13:42	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/30/12 13:42	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/30/12 13:42	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.82*	*1*	*1.00*	*82 %*	*44-134*	*2H29017*	*EPA 8081B*	*08/30/12 13:42*	*MSZ*	
Decachlorobiphenyl	*0.95*	*1*	*1.00*	*95 %*	*37-149*	*2H29017*	*EPA 8081B*	*08/30/12 13:42*	*MSZ*	

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Description: MW-10 | **Lab Sample ID:** C209022-04 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:05 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/30/12 13:42	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/30/12 13:42	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/30/12 13:42	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/30/12 13:42	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/30/12 13:42	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/30/12 13:42	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.82*	*1*	*1.00*	*82 %*	*45-151*	*2H29018*	*EPA 8082A*	*08/30/12 13:42*	*MSZ*	
Decachlorobiphenyl	*0.95*	*1*	*1.00*	*95 %*	*42-159*	*2H29018*	*EPA 8082A*	*08/30/12 13:42*	*MSZ*	

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Description: MW-10 | **Lab Sample ID:** C209022-04 | **Received:** 08/23/12 10:30

Matrix: Ground Water | **Sampled:** 08/22/12 10:05 | **Work Order:** C209022

Project: Wayne Closed MSWLF | **Sampled By:** Client

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 21:52	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 21:52	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 21:52	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 21:52	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 21:52	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*111 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 21:52*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-2 | **Lab Sample ID:** C209743-01 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 17:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/05/12 22:35	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/05/12 22:35	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/05/12 22:35	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/05/12 22:35	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 22:35	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/05/12 22:35	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/05/12 22:35	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 22:35	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/05/12 22:35	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	**2.9**	J	ug/L	1	1.6	10	10	EPA 8270D	09/05/12 22:35	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/05/12 22:35	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/05/12 22:35	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/05/12 22:35	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/05/12 22:35	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/05/12 22:35	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/05/12 22:35	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/05/12 22:35	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/05/12 22:35	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/05/12 22:35	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 22:35	DFM	

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Description: MW-2 | **Lab Sample ID:** C209743-01 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 17:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/05/12 22:35	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/05/12 22:35	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/05/12 22:35	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/05/12 22:35	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 22:35	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/05/12 22:35	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/05/12 22:35	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/05/12 22:35	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/05/12 22:35	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/05/12 22:35	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 12:31	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/05/12 22:35	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/05/12 22:35	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/05/12 22:35	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 22:35	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/05/12 22:35	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/05/12 22:35	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	

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Description: MW-2 | **Lab Sample ID:** C209743-01 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 17:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/05/12 22:35	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 22:35	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/05/12 22:35	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/05/12 22:35	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 22:35	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 22:35	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/05/12 22:35	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 22:35	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/05/12 22:35	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*84*	*1*	*100*	*84 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/05/12 22:35*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*75 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/05/12 22:35*	*DFM*	
2-Fluorophenol	*57*	*1*	*100*	*57 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/05/12 22:35*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*77 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/05/12 22:35*	*DFM*	
Phenol-d5	*47*	*1*	*100*	*47 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/05/12 22:35*	*DFM*	
Terphenyl-d14	*39*	*1*	*50.0*	*79 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/05/12 22:35*	*DFM*	

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Description: MW-2 | **Lab Sample ID:** C209743-01 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 17:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/24/12 15:55	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/24/12 15:55	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/24/12 15:55	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/24/12 15:55	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 15:55	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 15:55	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/24/12 15:55	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/24/12 15:55	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/24/12 15:55	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/24/12 15:55	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/24/12 15:55	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/24/12 15:55	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/24/12 15:55	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/24/12 15:55	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/24/12 15:55	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/24/12 15:55	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/24/12 15:55	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/24/12 15:55	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/24/12 15:55	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/24/12 15:55	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/24/12 15:55	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.76*	*1*	*1.00*	*76 %*	*44-134*	*2H22027*	*EPA 8081B*	*08/24/12 15:55*	*MSZ*	
Decachlorobiphenyl	*0.69*	*1*	*1.00*	*69 %*	*37-149*	*2H22027*	*EPA 8081B*	*08/24/12 15:55*	*MSZ*	

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Description: MW-2 | **Lab Sample ID:** C209743-01 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 17:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/24/12 15:55	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/24/12 15:55	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/24/12 15:55	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/24/12 15:55	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/24/12 15:55	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/24/12 15:55	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.76*	*1*	*1.00*	*76 %*	*45-151*	*2H22029*	*EPA 8082A*	*08/24/12 15:55*	*MSZ*	
Decachlorobiphenyl	*0.69*	*1*	*1.00*	*69 %*	*42-159*	*2H22029*	*EPA 8082A*	*08/24/12 15:55*	*MSZ*	

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Description: MW-2 | **Lab Sample ID:** C209743-01 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 17:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 17:33	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 17:33	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 17:33	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 17:33	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 17:33	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.4*	*1*	*2.00*	*120 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 17:33*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-3 | **Lab Sample ID:** C209743-02 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 16:30 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/05/12 23:05	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/05/12 23:05	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/05/12 23:05	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/05/12 23:05	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 23:05	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/05/12 23:05	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/05/12 23:05	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 23:05	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/05/12 23:05	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/05/12 23:05	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/05/12 23:05	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/05/12 23:05	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/05/12 23:05	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/05/12 23:05	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/05/12 23:05	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/05/12 23:05	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/05/12 23:05	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/05/12 23:05	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/05/12 23:05	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:05	DFM	

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Description: MW-3 | **Lab Sample ID:** C209743-02 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 16:30 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/05/12 23:05	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/05/12 23:05	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/05/12 23:05	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/05/12 23:05	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 23:05	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/05/12 23:05	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/05/12 23:05	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/05/12 23:05	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/05/12 23:05	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/05/12 23:05	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 13:01	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/05/12 23:05	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/05/12 23:05	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/05/12 23:05	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 23:05	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/05/12 23:05	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/05/12 23:05	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	

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Description: MW-3 | **Lab Sample ID:** C209743-02 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 16:30 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/05/12 23:05	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:05	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/05/12 23:05	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/05/12 23:05	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:05	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:05	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/05/12 23:05	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:05	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/05/12 23:05	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*77*	*1*	*100*	*77 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/05/12 23:05*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*89 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/05/12 23:05*	*DFM*	
2-Fluorophenol	*57*	*1*	*100*	*57 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/05/12 23:05*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/05/12 23:05*	*DFM*	
Phenol-d5	*44*	*1*	*100*	*44 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/05/12 23:05*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*91 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/05/12 23:05*	*DFM*	

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Description: MW-3 | **Lab Sample ID:** C209743-02 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 16:30 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/24/12 16:08	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/24/12 16:08	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/24/12 16:08	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/24/12 16:08	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 16:08	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 16:08	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/24/12 16:08	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/24/12 16:08	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/24/12 16:08	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/24/12 16:08	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/24/12 16:08	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/24/12 16:08	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/24/12 16:08	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/24/12 16:08	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/24/12 16:08	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/24/12 16:08	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/24/12 16:08	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/24/12 16:08	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/24/12 16:08	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/24/12 16:08	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/24/12 16:08	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.93*	*1*	*1.00*	*93 %*	*44-134*	*2H22027*	*EPA 8081B*	*08/24/12 16:08*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*102 %*	*37-149*	*2H22027*	*EPA 8081B*	*08/24/12 16:08*	*MSZ*	

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Description: MW-3 | **Lab Sample ID:** C209743-02 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 16:30 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/24/12 16:08	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/24/12 16:08	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/24/12 16:08	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/24/12 16:08	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/24/12 16:08	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/24/12 16:08	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.93*	*1*	*1.00*	*93 %*	*45-151*	*2H22029*	*EPA 8082A*	*08/24/12 16:08*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*102 %*	*42-159*	*2H22029*	*EPA 8082A*	*08/24/12 16:08*	*MSZ*	

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Description: MW-3 | **Lab Sample ID:** C209743-02 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 16:30 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 17:59	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 17:59	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 17:59	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 17:59	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 17:59	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.3*	*1*	*2.00*	*113 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 17:59*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-4 | **Lab Sample ID:** C209743-03 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/05/12 23:35	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/05/12 23:35	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/05/12 23:35	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/05/12 23:35	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 23:35	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/05/12 23:35	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/05/12 23:35	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 23:35	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/05/12 23:35	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/05/12 23:35	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/05/12 23:35	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/05/12 23:35	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/05/12 23:35	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/05/12 23:35	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/05/12 23:35	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/05/12 23:35	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/05/12 23:35	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/05/12 23:35	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/05/12 23:35	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:35	DFM	

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Description: MW-4 | **Lab Sample ID:** C209743-03 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/05/12 23:35	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**2.0**	J	ug/L	1	1.7	5.0	15	EPA 8270D	09/05/12 23:35	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
Diethylphthalate [84-66-2] ^	**3.8**	J	ug/L	1	2.1	10	6000	EPA 8270D	09/05/12 23:35	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/05/12 23:35	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 23:35	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/05/12 23:35	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/05/12 23:35	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/05/12 23:35	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/05/12 23:35	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/05/12 23:35	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 13:31	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/05/12 23:35	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/05/12 23:35	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/05/12 23:35	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/05/12 23:35	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/05/12 23:35	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/05/12 23:35	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	

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Description: MW-4 | **Lab Sample ID:** C209743-03 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/05/12 23:35	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/05/12 23:35	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/05/12 23:35	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/05/12 23:35	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/05/12 23:35	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/05/12 23:35	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/05/12 23:35	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/05/12 23:35	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/05/12 23:35	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*74*	*1*	*100*	*74 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/05/12 23:35*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*83 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/05/12 23:35*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/05/12 23:35*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*80 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/05/12 23:35*	*DFM*	
Phenol-d5	*50*	*1*	*100*	*50 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/05/12 23:35*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*88 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/05/12 23:35*	*DFM*	

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Description: MW-4 | **Lab Sample ID:** C209743-03 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/24/12 16:22	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/24/12 16:22	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/24/12 16:22	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/24/12 16:22	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 16:22	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 16:22	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/24/12 16:22	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/24/12 16:22	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/24/12 16:22	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/24/12 16:22	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/24/12 16:22	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/24/12 16:22	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/24/12 16:22	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/24/12 16:22	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/24/12 16:22	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/24/12 16:22	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/24/12 16:22	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/24/12 16:22	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/24/12 16:22	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/24/12 16:22	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/24/12 16:22	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.99*	*1*	*1.00*	*99 %*	*44-134*	*2H22027*	*EPA 8081B*	*08/24/12 16:22*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*107 %*	*37-149*	*2H22027*	*EPA 8081B*	*08/24/12 16:22*	*MSZ*	

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Description: MW-4 | **Lab Sample ID:** C209743-03 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/24/12 16:22	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/24/12 16:22	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/24/12 16:22	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/24/12 16:22	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/24/12 16:22	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/24/12 16:22	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.99*	*1*	*1.00*	*99 %*	*45-151*	*2H22029*	*EPA 8082A*	*08/24/12 16:22*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*107 %*	*42-159*	*2H22029*	*EPA 8082A*	*08/24/12 16:22*	*MSZ*	

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Description: MW-4 | **Lab Sample ID:** C209743-03 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:10 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 18:25	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 18:25	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 18:25	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 18:25	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 18:25	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*96 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 18:25*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-5 | **Lab Sample ID:** C209743-04 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 12:00 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/06/12 00:06	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 00:06	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 00:06	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/06/12 00:06	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 00:06	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/06/12 00:06	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/06/12 00:06	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 00:06	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/06/12 00:06	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 00:06	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/06/12 00:06	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/06/12 00:06	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/06/12 00:06	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/06/12 00:06	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 00:06	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 00:06	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/06/12 00:06	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/06/12 00:06	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 00:06	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:06	DFM	

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Description: MW-5 | **Lab Sample ID:** C209743-04 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 12:00 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/06/12 00:06	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/06/12 00:06	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/06/12 00:06	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 00:06	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 00:06	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 00:06	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 00:06	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 00:06	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 00:06	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 00:06	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 14:01	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/06/12 00:06	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 00:06	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/06/12 00:06	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 00:06	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 00:06	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/06/12 00:06	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	

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Description: MW-5 | **Lab Sample ID:** C209743-04 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 12:00 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 00:06	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:06	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 00:06	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 00:06	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:06	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:06	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 00:06	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:06	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 00:06	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*75*	*1*	*100*	*75 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/06/12 00:06*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*84 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 00:06*	*DFM*	
2-Fluorophenol	*60*	*1*	*100*	*60 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/06/12 00:06*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*83 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 00:06*	*DFM*	
Phenol-d5	*47*	*1*	*100*	*47 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/06/12 00:06*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*89 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/06/12 00:06*	*DFM*	

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Description: MW-5 | **Lab Sample ID:** C209743-04 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 12:00 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/24/12 16:48	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/24/12 16:48	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/24/12 16:48	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/24/12 16:48	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 16:48	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 16:48	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/24/12 16:48	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/24/12 16:48	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/24/12 16:48	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/24/12 16:48	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/24/12 16:48	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/24/12 16:48	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/24/12 16:48	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/24/12 16:48	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/24/12 16:48	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/24/12 16:48	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/24/12 16:48	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/24/12 16:48	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/24/12 16:48	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/24/12 16:48	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/24/12 16:48	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.91*	*1*	*1.00*	*91 %*	*44-134*	*2H22027*	*EPA 8081B*	*08/24/12 16:48*	*MSZ*	
Decachlorobiphenyl	*0.87*	*1*	*1.00*	*87 %*	*37-149*	*2H22027*	*EPA 8081B*	*08/24/12 16:48*	*MSZ*	

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Description: MW-5 | **Lab Sample ID:** C209743-04 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 12:00 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/24/12 16:48	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/24/12 16:48	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/24/12 16:48	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/24/12 16:48	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/24/12 16:48	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/24/12 16:48	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.91*	*1*	*1.00*	*91 %*	*45-151*	*2H22029*	*EPA 8082A*	*08/24/12 16:48*	*MSZ*	
Decachlorobiphenyl	*0.87*	*1*	*1.00*	*87 %*	*42-159*	*2H22029*	*EPA 8082A*	*08/24/12 16:48*	*MSZ*	

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Description: MW-5 | **Lab Sample ID:** C209743-04 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 12:00 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 18:51	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 18:51	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 18:51	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 18:51	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 18:51	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*110 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 18:51*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-6 | **Lab Sample ID:** C209743-05 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 13:35 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/06/12 00:36	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 00:36	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 00:36	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/06/12 00:36	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 00:36	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/06/12 00:36	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/06/12 00:36	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 00:36	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/06/12 00:36	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 00:36	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/06/12 00:36	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/06/12 00:36	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/06/12 00:36	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/06/12 00:36	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 00:36	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 00:36	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/06/12 00:36	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/06/12 00:36	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 00:36	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:36	DFM	

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Description: MW-6 | **Lab Sample ID:** C209743-05 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 13:35 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/06/12 00:36	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/06/12 00:36	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/06/12 00:36	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 00:36	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 00:36	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 00:36	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 00:36	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 00:36	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 00:36	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 00:36	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 14:31	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/06/12 00:36	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 00:36	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/06/12 00:36	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 00:36	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 00:36	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/06/12 00:36	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	

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Description: MW-6 | **Lab Sample ID:** C209743-05 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 13:35 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 00:36	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 00:36	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 00:36	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 00:36	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 00:36	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 00:36	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 00:36	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 00:36	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 00:36	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*83*	*1*	*100*	*83 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/06/12 00:36*	*DFM*	
2-Fluorobiphenyl	*46*	*1*	*50.0*	*93 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 00:36*	*DFM*	
2-Fluorophenol	*65*	*1*	*100*	*65 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/06/12 00:36*	*DFM*	
Nitrobenzene-d5	*44*	*1*	*50.0*	*87 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 00:36*	*DFM*	
Phenol-d5	*53*	*1*	*100*	*53 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/06/12 00:36*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*98 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/06/12 00:36*	*DFM*	

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Description: MW-6 | **Lab Sample ID:** C209743-05 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 13:35 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/24/12 17:01	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/24/12 17:01	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/24/12 17:01	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/24/12 17:01	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 17:01	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 17:01	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/24/12 17:01	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/24/12 17:01	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/24/12 17:01	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/24/12 17:01	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/24/12 17:01	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/24/12 17:01	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/24/12 17:01	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/24/12 17:01	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/24/12 17:01	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/24/12 17:01	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/24/12 17:01	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/24/12 17:01	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/24/12 17:01	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/24/12 17:01	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/24/12 17:01	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.69*	*1*	*1.00*	*69 %*	*44-134*	*2H22027*	*EPA 8081B*	*08/24/12 17:01*	*MSZ*	
Decachlorobiphenyl	*0.78*	*1*	*1.00*	*78 %*	*37-149*	*2H22027*	*EPA 8081B*	*08/24/12 17:01*	*MSZ*	

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Description: MW-6 | **Lab Sample ID:** C209743-05 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 13:35 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/24/12 17:01	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/24/12 17:01	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/24/12 17:01	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/24/12 17:01	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/24/12 17:01	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/24/12 17:01	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.69*	*1*	*1.00*	*69 %*	*45-151*	*2H22029*	*EPA 8082A*	*08/24/12 17:01*	*MSZ*	
Decachlorobiphenyl	*0.78*	*1*	*1.00*	*78 %*	*42-159*	*2H22029*	*EPA 8082A*	*08/24/12 17:01*	*MSZ*	

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Description: MW-6 | **Lab Sample ID:** C209743-05 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 13:35 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 19:17	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 19:17	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 19:17	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 19:17	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 19:17	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*96 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 19:17*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-7 | **Lab Sample ID:** C209743-06 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/06/12 01:06	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 01:06	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 01:06	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/06/12 01:06	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 01:06	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/06/12 01:06	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/06/12 01:06	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 01:06	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/06/12 01:06	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 01:06	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/06/12 01:06	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/06/12 01:06	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/06/12 01:06	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/06/12 01:06	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 01:06	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 01:06	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/06/12 01:06	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/06/12 01:06	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 01:06	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:06	DFM	

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Description: MW-7 | **Lab Sample ID:** C209743-06 | **Received:** 08/22/12 09:30
Matrix: Ground Water | **Sampled:** 08/21/12 14:50 | **Work Order:** C209743
Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/06/12 01:06	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/06/12 01:06	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/06/12 01:06	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 01:06	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 01:06	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 01:06	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 01:06	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 01:06	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 01:06	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 01:06	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 15:01	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/06/12 01:06	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 01:06	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/06/12 01:06	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 01:06	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 01:06	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/06/12 01:06	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	

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Description: MW-7 | **Lab Sample ID:** C209743-06 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 01:06	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:06	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 01:06	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 01:06	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:06	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:06	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 01:06	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:06	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 01:06	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*90*	*1*	*100*	*90 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/06/12 01:06*	*DFM*	
2-Fluorobiphenyl	*43*	*1*	*50.0*	*86 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 01:06*	*DFM*	
2-Fluorophenol	*60*	*1*	*100*	*60 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/06/12 01:06*	*DFM*	
Nitrobenzene-d5	*44*	*1*	*50.0*	*88 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 01:06*	*DFM*	
Phenol-d5	*49*	*1*	*100*	*49 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/06/12 01:06*	*DFM*	
Terphenyl-d14	*51*	*1*	*50.0*	*103 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/06/12 01:06*	*DFM*	

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Description: MW-7 | **Lab Sample ID:** C209743-06 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/24/12 17:15	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/24/12 17:15	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/24/12 17:15	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/24/12 17:15	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 17:15	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 17:15	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/24/12 17:15	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/24/12 17:15	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/24/12 17:15	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/24/12 17:15	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/24/12 17:15	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/24/12 17:15	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/24/12 17:15	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/24/12 17:15	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/24/12 17:15	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/24/12 17:15	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/24/12 17:15	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/24/12 17:15	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/24/12 17:15	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/24/12 17:15	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/24/12 17:15	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.76*	*1*	*1.00*	*76 %*	*44-134*	*2H22027*	*EPA 8081B*	*08/24/12 17:15*	*MSZ*	
Decachlorobiphenyl	*0.69*	*1*	*1.00*	*69 %*	*37-149*	*2H22027*	*EPA 8081B*	*08/24/12 17:15*	*MSZ*	

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Description: MW-7 | **Lab Sample ID:** C209743-06 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/24/12 17:15	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/24/12 17:15	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/24/12 17:15	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/24/12 17:15	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/24/12 17:15	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/24/12 17:15	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.76*	*1*	*1.00*	*76 %*	*45-151*	*2H22029*	*EPA 8082A*	*08/24/12 17:15*	*MSZ*	
Decachlorobiphenyl	*0.69*	*1*	*1.00*	*69 %*	*42-159*	*2H22029*	*EPA 8082A*	*08/24/12 17:15*	*MSZ*	

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Description: MW-7 | **Lab Sample ID:** C209743-06 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 14:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 19:43	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 19:43	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 19:43	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 19:43	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 19:43	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*97 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 19:43*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: MW-11 | **Lab Sample ID:** C209743-07 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 15:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	09/06/12 01:37	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 01:37	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 01:37	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	09/06/12 01:37	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 01:37	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	09/06/12 01:37	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	09/06/12 01:37	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 01:37	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	09/06/12 01:37	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 01:37	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	09/06/12 01:37	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	09/06/12 01:37	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	09/06/12 01:37	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	09/06/12 01:37	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 01:37	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 01:37	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	09/06/12 01:37	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	09/06/12 01:37	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	09/06/12 01:37	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:37	DFM	

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Description: MW-11 | **Lab Sample ID:** C209743-07 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 15:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	09/06/12 01:37	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/06/12 01:37	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	09/06/12 01:37	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 01:37	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 01:37	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	09/06/12 01:37	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 01:37	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 01:37	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 01:37	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 01:37	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	09/06/12 15:31	DFM	
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	09/06/12 01:37	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	09/06/12 01:37	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	09/06/12 01:37	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	09/06/12 01:37	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	09/06/12 01:37	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	09/06/12 01:37	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	

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Description: MW-11 | **Lab Sample ID:** C209743-07 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 15:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	09/06/12 01:37	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	09/06/12 01:37	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	09/06/12 01:37	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	09/06/12 01:37	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	09/06/12 01:37	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	09/06/12 01:37	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	09/06/12 01:37	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	09/06/12 01:37	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	09/06/12 01:37	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*78*	*1*	*100*	*78 %*	*10-179*	*2H27008*	*EPA 8270D*	*09/06/12 01:37*	*DFM*	
2-Fluorobiphenyl	*43*	*1*	*50.0*	*86 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 01:37*	*DFM*	
2-Fluorophenol	*62*	*1*	*100*	*62 %*	*10-110*	*2H27008*	*EPA 8270D*	*09/06/12 01:37*	*DFM*	
Nitrobenzene-d5	*43*	*1*	*50.0*	*86 %*	*10-149*	*2H27008*	*EPA 8270D*	*09/06/12 01:37*	*DFM*	
Phenol-d5	*52*	*1*	*100*	*52 %*	*10-88*	*2H27008*	*EPA 8270D*	*09/06/12 01:37*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*89 %*	*10-188*	*2H27008*	*EPA 8270D*	*09/06/12 01:37*	*DFM*	

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Description: MW-11 | **Lab Sample ID:** C209743-07 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 15:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	08/24/12 17:28	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	08/24/12 17:28	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	08/24/12 17:28	MSZ	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	08/24/12 17:28	MSZ	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 17:28	MSZ	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	08/24/12 17:28	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	08/24/12 17:28	MSZ	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	08/24/12 17:28	MSZ	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	08/24/12 17:28	MSZ	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	08/24/12 17:28	MSZ	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	08/24/12 17:28	MSZ	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	08/24/12 17:28	MSZ	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	08/24/12 17:28	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	08/24/12 17:28	MSZ	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	08/24/12 17:28	MSZ	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	08/24/12 17:28	MSZ	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	08/24/12 17:28	MSZ	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	08/24/12 17:28	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	08/24/12 17:28	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	08/24/12 17:28	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	08/24/12 17:28	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.60*	*1*	*1.00*	*60 %*	*44-134*	*2H22027*	*EPA 8081B*	*08/24/12 17:28*	*MSZ*	
Decachlorobiphenyl	*0.56*	*1*	*1.00*	*56 %*	*37-149*	*2H22027*	*EPA 8081B*	*08/24/12 17:28*	*MSZ*	

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Description: MW-11 | **Lab Sample ID:** C209743-07 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 15:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	08/24/12 17:28	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	08/24/12 17:28	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	08/24/12 17:28	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	08/24/12 17:28	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	08/24/12 17:28	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	08/24/12 17:28	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.60*	*1*	*1.00*	*60 %*	*45-151*	*2H22029*	*EPA 8082A*	*08/24/12 17:28*	*MSZ*	
Decachlorobiphenyl	*0.56*	*1*	*1.00*	*56 %*	*42-159*	*2H22029*	*EPA 8082A*	*08/24/12 17:28*	*MSZ*	

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Description: MW-11 | **Lab Sample ID:** C209743-07 | **Received:** 08/22/12 09:30

Matrix: Ground Water | **Sampled:** 08/21/12 15:50 | **Work Order:** C209743

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.23	U	ug/L	1	0.23	0.50	2	EPA 8151A	08/28/12 20:09	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.20	U	ug/L	1	0.20	0.50	2	EPA 8151A	08/28/12 20:09	RGG	
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	08/28/12 20:09	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	08/28/12 20:09	RGG	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	08/28/12 20:09	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.6*	*1*	*2.00*	*80 %*	*68-139*	*2H27004*	*EPA 8151A*	*08/28/12 20:09*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2H27008 - EPA 3510C_MS

Blank (2H27008-BLK1) Prepared: 08/27/2012 08:52 Analyzed: 09/05/2012 20:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2H27008 - EPA 3510C_MS

Blank (2H27008-BLK1) Continued Prepared: 08/27/2012 08:52 Analyzed: 09/05/2012 20:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							QV-02
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							
Methapyrilene	3.5	U	10	ug/L							QV-02
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2H27008 - EPA 3510C_MS

Blank (2H27008-BLK1) Continued Prepared: 08/27/2012 08:52 Analyzed: 09/05/2012 20:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*70*			*ug/L*	*100*		*70*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*75*	*10-149*			
Surrogate: 2-Fluorophenol	*53*			*ug/L*	*100*		*53*	*10-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*74*	*10-149*			
Surrogate: Phenol-d5	*42*			*ug/L*	*100*		*42*	*10-88*			
Surrogate: Terphenyl-d14	*39*			*ug/L*	*50.0*		*79*	*10-188*			

LCS (2H27008-BS1) Prepared: 08/27/2012 08:52 Analyzed: 09/05/2012 20:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	38		10	ug/L	50.0		75	40-109			
4-Chloro-3-methylphenol	39		10	ug/L	50.0		78	58-121			
4-Nitrophenol	20		10	ug/L	50.0		39	33-105			
Acenaphthene	43		10	ug/L	50.0		85	39-125			
N-Nitroso-di-n-propylamine	40		10	ug/L	50.0		79	48-126			
Phenol	22		10	ug/L	50.0		45	19-78			
Pyrene	41		10	ug/L	50.0		81	44-137			
Surrogate: 2,4,6-Tribromophenol	*78*			*ug/L*	*100*		*78*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*44*			*ug/L*	*50.0*		*88*	*10-149*			
Surrogate: 2-Fluorophenol	*58*			*ug/L*	*100*		*58*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: Phenol-d5	*44*			*ug/L*	*100*		*44*	*10-88*			
Surrogate: Terphenyl-d14	*43*			*ug/L*	*50.0*		*85*	*10-188*			

Matrix Spike (2H27008-MS1) Prepared: 08/27/2012 08:52 Analyzed: 09/05/2012 21:04

Source: C209712-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	37		10	ug/L	50.0	1.2 U	75	40-109			
4-Chloro-3-methylphenol	38		10	ug/L	50.0	1.5 U	76	58-121			
4-Nitrophenol	19		10	ug/L	50.0	2.0 U	39	33-105			
Acenaphthene	43		10	ug/L	50.0	1.4 U	86	39-125			
N-Nitroso-di-n-propylamine	39		10	ug/L	50.0	1.5 U	77	48-126			
Phenol	23		10	ug/L	50.0	1.4 U	47	19-78			
Pyrene	38		10	ug/L	50.0	2.1 U	76	44-137			
Surrogate: 2,4,6-Tribromophenol	*74*			*ug/L*	*100*		*74*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*44*			*ug/L*	*50.0*		*88*	*10-149*			
Surrogate: 2-Fluorophenol	*58*			*ug/L*	*100*		*58*	*10-110*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: Phenol-d5	*45*			*ug/L*	*100*		*45*	*10-88*			
Surrogate: Terphenyl-d14	*38*			*ug/L*	*50.0*		*77*	*10-188*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2H27008 - EPA 3510C_MS

Matrix Spike Dup (2H27008-MSD1) Prepared: 08/27/2012 08:52 Analyzed: 09/05/2012 21:34

Source: C209712-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	37		10	ug/L	50.0	1.2 U	74	40-109	0.4	22	
4-Chloro-3-methylphenol	37		10	ug/L	50.0	1.5 U	75	58-121	2	22	
4-Nitrophenol	21		10	ug/L	50.0	2.0 U	41	33-105	7	27	
Acenaphthene	43		10	ug/L	50.0	1.4 U	85	39-125	1	25	
N-Nitroso-di-n-propylamine	38		10	ug/L	50.0	1.5 U	77	48-126	0.9	23	
Phenol	25		10	ug/L	50.0	1.4 U	49	19-78	5	18	
Pyrene	38		10	ug/L	50.0	2.1 U	76	44-137	0	24	
Surrogate: 2,4,6-Tribromophenol	*76*			*ug/L*	*100*		*76*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*86*	*10-149*			
Surrogate: 2-Fluorophenol	*60*			*ug/L*	*100*		*60*	*10-110*			
Surrogate: Nitrobenzene-d5	*40*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: Phenol-d5	*48*			*ug/L*	*100*		*48*	*10-88*			
Surrogate: Terphenyl-d14	*39*			*ug/L*	*50.0*		*79*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 2H22027 - EPA 3510C

Blank (2H22027-BLK1) Prepared: 08/22/2012 14:04 Analyzed: 08/24/2012 13:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.85*			*ug/L*	*1.00*		*85*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.94*			*ug/L*	*1.00*		*94*	*37-149*			

LCS (2H22027-BS1) Prepared: 08/22/2012 14:04 Analyzed: 08/24/2012 13:35

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 2H22027 - EPA 3510C

LCS (2H22027-BS1) Continued Prepared: 08/22/2012 14:04 Analyzed: 08/24/2012 13:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.91		0.050	ug/L	1.00		91	37-139			
Dieldrin	0.98		0.050	ug/L	1.00		98	46-132			
Endrin	0.94		0.050	ug/L	1.00		94	43-133			
Surrogate: 2,4,5,6-TCMX	*0.94*			*ug/L*	*1.00*		*94*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*101*	*37-149*			

Matrix Spike (2H22027-MS1) Prepared: 08/22/2012 14:04 Analyzed: 08/24/2012 13:48

Source: C209712-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.99		0.050	ug/L	1.00	0.049 U	99	37-139			
Dieldrin	1.1		0.050	ug/L	1.00	0.045 U	105	46-132			
Endrin	1.0		0.050	ug/L	1.00	0.041 U	103	43-133			
Surrogate: 2,4,5,6-TCMX	*0.97*			*ug/L*	*1.00*		*97*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*109*	*37-149*			

Matrix Spike Dup (2H22027-MSD1) Prepared: 08/22/2012 14:04 Analyzed: 08/24/2012 14:01

Source: C209712-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.95		0.050	ug/L	1.00	0.049 U	95	37-139	4	26	
Dieldrin	0.98		0.050	ug/L	1.00	0.045 U	98	46-132	7	27	
Endrin	0.98		0.050	ug/L	1.00	0.041 U	98	43-133	5	26	
Surrogate: 2,4,5,6-TCMX	*0.90*			*ug/L*	*1.00*		*90*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*104*	*37-149*			

Batch 2H29017 - EPA 3510C

Blank (2H29017-BLK1) Prepared: 08/29/2012 11:11 Analyzed: 08/30/2012 10:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 2H29017 - EPA 3510C

Blank (2H29017-BLK1) Continued Prepared: 08/29/2012 11:11 Analyzed: 08/30/2012 10:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.82*			*ug/L*	*1.00*		*82*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*109*	*37-149*			

LCS (2H29017-BS1) Prepared: 08/29/2012 11:11 Analyzed: 08/30/2012 10:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.90		0.050	ug/L	1.00		90	37-139			
Dieldrin	0.96		0.050	ug/L	1.00		96	46-132			
Endrin	0.94		0.050	ug/L	1.00		94	43-133			
Surrogate: 2,4,5,6-TCMX	*0.87*			*ug/L*	*1.00*		*87*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*107*	*37-149*			

Matrix Spike (2H29017-MS1) Prepared: 08/29/2012 11:11 Analyzed: 08/30/2012 10:50

Source: C209930-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.95		0.050	ug/L	1.00	0.049 U	95	37-139			
Dieldrin	1.0		0.050	ug/L	1.00	0.045 U	100	46-132			
Endrin	0.98		0.050	ug/L	1.00	0.041 U	98	43-133			
Surrogate: 2,4,5,6-TCMX	*0.86*			*ug/L*	*1.00*		*86*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*106*	*37-149*			

Matrix Spike Dup (2H29017-MSD1) Prepared: 08/29/2012 11:11 Analyzed: 08/30/2012 11:03

Source: C209930-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.93		0.050	ug/L	1.00	0.049 U	93	37-139	2	26	
Dieldrin	0.96		0.050	ug/L	1.00	0.045 U	96	46-132	3	27	
Endrin	0.95		0.050	ug/L	1.00	0.041 U	95	43-133	3	26	
Surrogate: 2,4,5,6-TCMX	*0.81*			*ug/L*	*1.00*		*81*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*103*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 2H22029 - EPA 3510C

Blank (2H22029-BLK1) Prepared: 08/22/2012 14:06 Analyzed: 08/24/2012 13:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.19	U	0.50	ug/L							
PCB-1221	0.046	U	0.50	ug/L							
PCB-1232	0.028	U	0.50	ug/L							

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 2H22029 - EPA 3510C

Blank (2H22029-BLK1) Continued Prepared: 08/22/2012 14:06 Analyzed: 08/24/2012 13:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.015	U	0.50	ug/L							
PCB-1260	0.13	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.85*			*ug/L*	*1.00*		*85*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.94*			*ug/L*	*1.00*		*94*	*42-159*			

LCS (2H22029-BS1) Prepared: 08/22/2012 14:06 Analyzed: 08/24/2012 14:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	7.0		0.50	ug/L	10.0		70	66-149			
PCB-1260	7.5		0.50	ug/L	10.0		75	64-150			
Surrogate: 2,4,5,6-TCMX	*0.60*			*ug/L*	*1.00*		*60*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.70*			*ug/L*	*1.00*		*70*	*42-159*			

Matrix Spike (2H22029-MS1) Prepared: 08/22/2012 14:06 Analyzed: 08/24/2012 14:49

Source: C209712-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	10		0.50	ug/L	10.0	0.19 U	100	66-149			
PCB-1260	10		0.50	ug/L	10.0	0.13 U	103	64-150			
Surrogate: 2,4,5,6-TCMX	*0.80*			*ug/L*	*1.00*		*80*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.90*			*ug/L*	*1.00*		*90*	*42-159*			

Matrix Spike Dup (2H22029-MSD1) Prepared: 08/22/2012 14:06 Analyzed: 08/24/2012 15:02

Source: C209712-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0	0.19 U	112	66-149	11	21	
PCB-1260	10		0.50	ug/L	10.0	0.13 U	100	64-150	3	18	
Surrogate: 2,4,5,6-TCMX	*0.90*			*ug/L*	*1.00*		*90*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*100*	*42-159*			

Batch 2H29018 - EPA 3510C

Blank (2H29018-BLK1) Prepared: 08/29/2012 11:15 Analyzed: 08/30/2012 10:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.19	U	0.50	ug/L							
PCB-1221	0.046	U	0.50	ug/L							
PCB-1232	0.028	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.015	U	0.50	ug/L							
PCB-1260	0.13	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.82*			*ug/L*	*1.00*		*82*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*109*	*42-159*			

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 2H29018 - EPA 3510C

LCS (2H29018-BS1) Prepared: 08/29/2012 11:15 Analyzed: 08/30/2012 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	10		0.50	ug/L	10.0		103	66-149			
PCB-1260	10		0.50	ug/L	10.0		103	64-150			
Surrogate: 2,4,5,6-TCMX	*0.90*			*ug/L*	*1.00*		*90*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*110*	*42-159*			

Matrix Spike (2H29018-MS1) Prepared: 08/29/2012 11:15 Analyzed: 08/30/2012 11:30

Source: C209930-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	9.7		0.50	ug/L	10.0	0.19 U	97	66-149			
PCB-1260	11		0.50	ug/L	10.0	0.13 U	110	64-150			
Surrogate: 2,4,5,6-TCMX	*0.80*			*ug/L*	*1.00*		*80*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*100*	*42-159*			

Matrix Spike Dup (2H29018-MSD1) Prepared: 08/29/2012 11:15 Analyzed: 08/30/2012 11:43

Source: C209930-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	9.9		0.50	ug/L	10.0	0.19 U	99	66-149	2	21	
PCB-1260	11		0.50	ug/L	10.0	0.13 U	111	64-150	0.6	18	
Surrogate: 2,4,5,6-TCMX	*0.80*			*ug/L*	*1.00*		*80*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*100*	*42-159*			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 2H27004 - EPA 3510C

Blank (2H27004-BLK1) Prepared: 08/27/2012 10:50 Analyzed: 08/28/2012 15:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.23	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.20	U	0.50	ug/L							
2,4-D	0.16	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*100*	*68-139*			

LCS (2H27004-BS1) Prepared: 08/27/2012 10:50 Analyzed: 08/28/2012 15:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00		96	70-114			
2,4-D	2.0		0.50	ug/L	2.00		101	37-129			
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*108*	*68-139*			

Matrix Spike (2H27004-MS1) Prepared: 08/27/2012 10:50 Analyzed: 08/28/2012 16:15

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 2H27004 - EPA 3510C

Matrix Spike (2H27004-MS1) Continued Prepared: 08/27/2012 10:50 Analyzed: 08/28/2012 16:15

Source: A204741-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00	0.20 U	93	70-114			
2,4-D	2.0		0.50	ug/L	2.00	0.16 U	100	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*101*	*68-139*			

Matrix Spike Dup (2H27004-MSD1) Prepared: 08/27/2012 10:50 Analyzed: 08/28/2012 16:41

Source: A204741-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.7		0.50	ug/L	2.00	0.20 U	87	70-114	6	15	
2,4-D	1.9		0.50	ug/L	2.00	0.16 U	96	37-129	4	33	
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*99*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
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.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

Final submittal

Combine w/ Previously submitted samples

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Municipal Engineering Services (MU001)	Project Number: [none]
Address: P.O. Box 97	Project Name/Desc: Wayne Closed MSWLF (Dudley)
City/ST/Zip: Garner, NC 27529	PO # / Billing Info
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print)	Billing Contact: Accounts Payable
Sampler(s) Signature	Site Location / Time Zone

Requested Analyses: 8081B Appendix 2, 8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C209022

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers		Sample Comments
	MW-1	8/22/12	9:35	Grab	GW	3	X	
	~~MW-2~~				GW	3	X	
	~~MW-3~~				GW	3	X	
	~~MW-4~~				GW	3	X	
	~~MW-5~~				GW	3	X	
	~~MW-6~~				GW	3	X	
	~~MW-7~~				GW	3	X	
	MW-8	8/22/12	11:10	Grab	GW	3	X	
	MW-9	8/22/12	10:40	↓	GW	3	X	
	MW-10	8/22/12	10:05	↓	GW	3	X	
	~~MW-11~~				GW	3	X	
	~~MW-~~				GW	3	X	

<-- Total # of Containers

Sample Kit Prepared By: RAY	Date/Time: 8/6	Relinquished By	Date/Time	Received By: Rachel Yonish	Date/Time: 8/23 800
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By: John King	Date/Time: 8/23/12 1030
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-276 1.3°C C-61 Blue

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

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others will follow

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102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name	Municipal Engineering Services (MUCOI)
Address	PO Box 97
City/ST/Zip	Garner NC 27529
Tel	(919) 772-5393
Fax	(919) 772-1176
Sampler(s) Name, Affiliation (Print)	Jonathan Pfohl, MESCO
Sampler(s) Signature	
Project Number	
Project Name/Desc	Wayne Closed MSWLF
PO # / Billing Info	
Reporting Contact	Jonathan Pfohl
Billing Contact	
Site Location / Time Zone	

Requested Analyses: Pesticides - App 2 8081; Herbicides - App 2 8151; PCBs - App 2 8082; SVOCs - App 2 8270

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C209743

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Pesticides - App 2 8081	Herbicides - App 2 8151	PCBs - App 2 8082	SVOCs - App 2 8270	Sample Comments
	MW-2	8/21/12	5:10	Grab	GW	3	✓	✓	✓	✓	
	MW-3		4:30								
	MW-4		2:10								
	MW-5		12:00								
	MW-6		1:35								
	MW-7		2:50								
	MW-11		3:50								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		8/22/12 8:00		Michael Yousel	8/22 800
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
				John Ky	8/22/12 9:30
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.4°c		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

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Asheville, NC 28804
(828)254-7176

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

August 28, 2012

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

RE: Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2012. 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

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Huntersville, NC 28078
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CERTIFICATIONS

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

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

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SAMPLE SUMMARY

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92129083001	**SW-BYMW-2**	Water	08/21/12 17:25	08/23/12 15:35

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SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92129083001	**SW-BYMW-2**	EPA 8260	KJM	68	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

Sample: SW-BYMW-2 **Lab ID: 92129083001** Collected: 08/21/12 17:25 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**6.1J**	ug/L	100	2.2	1		08/25/12 05:46	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		08/25/12 05:46	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		08/25/12 05:46	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 05:46	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		08/25/12 05:46	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 05:46	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 05:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 05:46	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 05:46	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 05:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 05:46	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 05:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 05:46	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 05:46	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 05:46	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 05:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 05:46	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		08/25/12 05:46	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 05:46	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 05:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 05:46	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 05:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 05:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		08/25/12 05:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 05:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 05:46	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		08/25/12 05:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 05:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 05:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 05:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 05:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 05:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 05:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 05:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		08/25/12 05:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		08/25/12 05:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 05:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 05:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 05:46	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		08/25/12 05:46	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.71	1		08/25/12 05:46	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 05:46	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 05:46	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		08/25/12 05:46	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		08/25/12 05:46	126-98-7	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 05:46	75-09-2	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

Sample: SW-BYMW-2 **Lab ID: 92129083001** Collected: 08/21/12 17:25 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Methyl methacrylate	ND	ug/L	30.0	2.0	1		08/25/12 05:46	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 05:46	108-10-1	
Naphthalene	**0.72J**	ug/L	10.0	0.24	1		08/25/12 05:46	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		08/25/12 05:46	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 05:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 05:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 05:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 05:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 05:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.35	1		08/25/12 05:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 05:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 05:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 05:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 05:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 05:46	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 05:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 05:46	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 05:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/25/12 05:46	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		1		08/25/12 05:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		08/25/12 05:46	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/25/12 05:46	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

QC Batch: MSV/20181
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92129083001

METHOD BLANK: 821163
Matrix: Water
Associated Lab Samples: 92129083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/25/12 00:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/25/12 00:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	08/25/12 00:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/25/12 00:16	
1,1-Dichloroethane	ug/L	ND	5.0	08/25/12 00:16	
1,1-Dichloroethene	ug/L	ND	5.0	08/25/12 00:16	
1,1-Dichloropropene	ug/L	ND	5.0	08/25/12 00:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/25/12 00:16	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	08/25/12 00:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	08/25/12 00:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/25/12 00:16	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/25/12 00:16	
1,2-Dichloroethane	ug/L	ND	1.0	08/25/12 00:16	
1,2-Dichloropropane	ug/L	ND	1.0	08/25/12 00:16	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/25/12 00:16	
1,3-Dichloropropane	ug/L	ND	1.0	08/25/12 00:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/25/12 00:16	
2,2-Dichloropropane	ug/L	ND	15.0	08/25/12 00:16	
2-Butanone (MEK)	ug/L	ND	100	08/25/12 00:16	
2-Hexanone	ug/L	ND	50.0	08/25/12 00:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	08/25/12 00:16	
Acetone	ug/L	ND	100	08/25/12 00:16	
Acetonitrile	ug/L	ND	55.0	08/25/12 00:16	
Acrolein	ug/L	ND	53.0	08/25/12 00:16	
Acrylonitrile	ug/L	ND	200	08/25/12 00:16	
Allyl chloride	ug/L	ND	10.0	08/25/12 00:16	
Benzene	ug/L	ND	1.0	08/25/12 00:16	
Bromochloromethane	ug/L	ND	3.0	08/25/12 00:16	
Bromodichloromethane	ug/L	ND	1.0	08/25/12 00:16	
Bromoform	ug/L	ND	3.0	08/25/12 00:16	
Bromomethane	ug/L	ND	10.0	08/25/12 00:16	
Carbon disulfide	ug/L	ND	100	08/25/12 00:16	
Carbon tetrachloride	ug/L	ND	1.0	08/25/12 00:16	
Chlorobenzene	ug/L	ND	3.0	08/25/12 00:16	
Chloroethane	ug/L	ND	10.0	08/25/12 00:16	
Chloroform	ug/L	ND	5.0	08/25/12 00:16	
Chloromethane	ug/L	ND	1.0	08/25/12 00:16	
Chloroprene	ug/L	ND	20.0	08/25/12 00:16	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/25/12 00:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/25/12 00:16	
Dibromochloromethane	ug/L	ND	3.0	08/25/12 00:16	
Dibromomethane	ug/L	ND	10.0	08/25/12 00:16	
Dichlorodifluoromethane	ug/L	ND	5.0	08/25/12 00:16	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

METHOD BLANK: 821163 Matrix: Water

Associated Lab Samples: 92129083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl methacrylate	ug/L	ND	10.0	08/25/12 00:16	
Ethylbenzene	ug/L	ND	1.0	08/25/12 00:16	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	08/25/12 00:16	
Iodomethane	ug/L	ND	10.0	08/25/12 00:16	
Isobutanol	ug/L	ND	100	08/25/12 00:16	
Methacrylonitrile	ug/L	ND	100	08/25/12 00:16	
Methyl methacrylate	ug/L	ND	30.0	08/25/12 00:16	
Methylene Chloride	ug/L	ND	1.0	08/25/12 00:16	
Naphthalene	ug/L	ND	10.0	08/25/12 00:16	
Propionitrile	ug/L	ND	150	08/25/12 00:16	
Styrene	ug/L	ND	1.0	08/25/12 00:16	
Tetrachloroethene	ug/L	ND	1.0	08/25/12 00:16	
Toluene	ug/L	ND	1.0	08/25/12 00:16	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/25/12 00:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/25/12 00:16	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/25/12 00:16	
Trichloroethene	ug/L	ND	1.0	08/25/12 00:16	
Trichlorofluoromethane	ug/L	ND	1.0	08/25/12 00:16	
Vinyl acetate	ug/L	ND	50.0	08/25/12 00:16	
Vinyl chloride	ug/L	ND	1.0	08/25/12 00:16	
Xylene (Total)	ug/L	ND	5.0	08/25/12 00:16	
1,2-Dichloroethane-d4 (S)	%	115	70-130	08/25/12 00:16	
4-Bromofluorobenzene (S)	%	98	70-130	08/25/12 00:16	
Dibromofluoromethane (S)	%	111	70-130	08/25/12 00:16	
Toluene-d8 (S)	%	104	70-130	08/25/12 00:16	

LABORATORY CONTROL SAMPLE: 821164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,1-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.5	91	70-130	
1,1,2-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethane	ug/L	50	52.8	106	70-130	
1,1-Dichloroethene	ug/L	50	44.6	89	70-132	
1,1-Dichloropropene	ug/L	50	52.2	104	70-130	
1,2,3-Trichloropropane	ug/L	50	46.0	92	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.4	95	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	47.6	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	70-130	
1,2-Dichlorobenzene	ug/L	50	46.0	92	70-130	
1,2-Dichloroethane	ug/L	50	51.8	104	70-130	
1,2-Dichloropropane	ug/L	50	50.6	101	70-130	
1,3-Dichlorobenzene	ug/L	50	46.0	92	70-130	
1,3-Dichloropropane	ug/L	50	50.4	101	70-130	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

LABORATORY CONTROL SAMPLE: 821164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	45.5	91	70-130	
2,2-Dichloropropane	ug/L	50	44.4	89	58-145	
2-Butanone (MEK)	ug/L	100	92.7J	93	70-145	
2-Hexanone	ug/L	100	99.6	100	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.5J	98	70-140	
Acetone	ug/L	100	86.6J	87	50-175	
Acetonitrile	ug/L	500	463	93	70-130	
Acrolein	ug/L	250	199	79	70-130	
Acrylonitrile	ug/L	250	255	102	70-143	
Allyl chloride	ug/L	50	37.5	75	70-130	
Benzene	ug/L	50	53.6	107	70-130	
Bromochloromethane	ug/L	50	47.8	96	70-130	
Bromodichloromethane	ug/L	50	50.4	101	70-130	
Bromoform	ug/L	50	50.8	102	70-130	
Bromomethane	ug/L	50	38.7	77	54-130	
Carbon disulfide	ug/L	50	45.9J	92	70-131	
Carbon tetrachloride	ug/L	50	52.0	104	70-132	
Chlorobenzene	ug/L	50	48.0	96	70-130	
Chloroethane	ug/L	50	46.3	93	64-134	
Chloroform	ug/L	50	47.8	96	70-130	
Chloromethane	ug/L	50	40.9	82	64-130	
Chloroprene	ug/L	50	59.9	120	70-130	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Dibromochloromethane	ug/L	50	49.6	99	70-130	
Dibromomethane	ug/L	50	47.6	95	70-131	
Dichlorodifluoromethane	ug/L	50	53.0	106	56-130	
Ethyl methacrylate	ug/L	50	54.4	109	70-130	
Ethylbenzene	ug/L	50	48.1	96	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.2	92	70-130	
Iodomethane	ug/L	100	80.9	81	49-180	
Isobutanol	ug/L	1000	1090	109	70-130	
Methacrylonitrile	ug/L	500	490	98	70-130	
Methyl methacrylate	ug/L	50	54.8	110	70-130	
Methylene Chloride	ug/L	50	43.1	86	63-130	
Naphthalene	ug/L	50	47.1	94	70-138	
Propionitrile	ug/L	500	462	92	70-130	
Styrene	ug/L	50	49.4	99	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	
Toluene	ug/L	50	48.7	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	45.3J	91	70-141	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	38.3	77	62-133	
Vinyl acetate	ug/L	100	99.6	100	66-157	
Vinyl chloride	ug/L	50	43.9	88	69-130	
Xylene (Total)	ug/L	150	147	98	70-130	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

LABORATORY CONTROL SAMPLE: 821164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 821165 821166

Parameter	Units	92129062009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	60.3	57.7	121	115	70-166	4	30	
Benzene	ug/L	ND	50	50	58.8	56.3	118	113	70-148	4	30	
Chlorobenzene	ug/L	ND	50	50	62.1	60.6	124	121	70-146	2	30	
Toluene	ug/L	ND	50	50	65.1	64.0	130	128	70-155	2	30	
Trichloroethene	ug/L	ND	50	50	65.2	64.0	130	128	69-151	2	30	
1,2-Dichloroethane-d4 (S)	%						120	116	70-130			
4-Bromofluorobenzene (S)	%						99	96	70-130			
Dibromofluoromethane (S)	%						115	107	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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QUALIFIERS

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAYNE CLOSED MSWLF SW-BY MW-2
Pace Project No.: 92129083

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92129083001	**SW-BYMW-2**	EPA 8260	MSV/20181		

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Wayne Closed MSWLF SW-ByMW-2
Container Order Number:	

Section C — Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
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 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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	VOCs (Appendix II)											
																		Y/N	N	N	N	N	N	N	N	N	N	N	N	
1	SW-ByMW-2	WT	G				5:25						3						X											92129083 001
2						8/21/12																								
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	/MESCO	8/23/12	8AM	Pace	8/23/12	8:54				
	left in office Pace	8/23/12	15:35	Pace	8/23/12	1535	5.1	Y	N	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jonathan Pfohl		
SIGNATURE of SAMPLER:		DATE Signed: 8/22/12	

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal/Engineering Services Project # 92129083

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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 (T1101) T1102 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 5.1 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: 8/23/12

Temp should be above freezing to 6°C

		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:	☐Yes ☑No ☐N/A	12. No Date No Time on Samples
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
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	Initial when completed
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.
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: VG **Date:** 8/23/12 **SRF Review:** VG **Date:** 8/24/12

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)

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August 29, 2012

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

RE: Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2012. 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

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CERTIFICATIONS

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

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

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SAMPLE SUMMARY

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92129086001	**SW-1**	Water	08/22/12 15:25	08/23/12 15:35

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SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92129086001	**SW-1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

Sample: SW-1 **Lab ID: 92129086001** Collected: 08/22/12 15:25 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 16:34	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:34	7440-38-2	
Barium	**60.1J**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 16:34	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:34	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:34	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:34	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:34	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:34	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:34	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 16:34	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:34	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:34	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 16:34	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 16:34	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:34	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**4.9J**	ug/L	100	2.2	1		08/25/12 08:54	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 08:54	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 08:54	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 08:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 08:54	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 08:54	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 08:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 08:54	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 08:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 08:54	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 08:54	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 08:54	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 08:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 08:54	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 08:54	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 08:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 08:54	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 08:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 08:54	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 08:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 08:54	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 08:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 08:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 08:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 08:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 08:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 08:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 08:54	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 08:54	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

Sample: SW-1 **Lab ID: 92129086001** Collected: 08/22/12 15:25 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 08:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 08:54	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 08:54	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 08:54	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 08:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 08:54	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 08:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 08:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 08:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 08:54	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 08:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 08:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 08:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 08:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 08:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 08:54	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 08:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 08:54	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 08:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/25/12 08:54	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		1		08/25/12 08:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		08/25/12 08:54	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/25/12 08:54	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

QC Batch: MPRP/11348
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92129086001

METHOD BLANK: 821855
Matrix: Water
Associated Lab Samples: 92129086001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	08/28/12 16:18	
Arsenic	ug/L	ND	10.0	08/28/12 16:18	
Barium	ug/L	ND	100	08/28/12 16:18	
Beryllium	ug/L	ND	1.0	08/28/12 16:18	
Cadmium	ug/L	ND	1.0	08/28/12 16:18	
Chromium	ug/L	ND	10.0	08/28/12 16:18	
Cobalt	ug/L	ND	10.0	08/28/12 16:18	
Copper	ug/L	ND	10.0	08/28/12 16:18	
Lead	ug/L	ND	10.0	08/28/12 16:18	
Nickel	ug/L	ND	50.0	08/28/12 16:18	
Selenium	ug/L	ND	10.0	08/28/12 16:18	
Silver	ug/L	ND	10.0	08/28/12 16:18	
Thallium	ug/L	ND	5.5	08/28/12 16:18	
Vanadium	ug/L	ND	25.0	08/28/12 16:18	
Zinc	ug/L	ND	10.0	08/28/12 16:18	

LABORATORY CONTROL SAMPLE: 821856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	482	96	80-120	
Arsenic	ug/L	500	493	99	80-120	
Barium	ug/L	500	501	100	80-120	
Beryllium	ug/L	500	497	99	80-120	
Cadmium	ug/L	500	495	99	80-120	
Chromium	ug/L	500	485	97	80-120	
Cobalt	ug/L	500	492	98	80-120	
Copper	ug/L	500	505	101	80-120	
Lead	ug/L	500	496	99	80-120	
Nickel	ug/L	500	496	99	80-120	
Selenium	ug/L	500	493	99	80-120	
Silver	ug/L	250	242	97	80-120	
Thallium	ug/L	500	490	98	80-120	
Vanadium	ug/L	500	498	100	80-120	
Zinc	ug/L	500	484	97	80-120	

MATRIX SPIKE SAMPLE: 821857

Parameter	Units	92129082002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	487	97	75-125	
Arsenic	ug/L	ND	500	502	100	75-125	

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(704)875-9092

QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

MATRIX SPIKE SAMPLE: 821857

Parameter	Units	92129082002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	59.8J	500	552	98	75-125	
Beryllium	ug/L	ND	500	491	98	75-125	
Cadmium	ug/L	ND	500	485	97	75-125	
Chromium	ug/L	ND	500	478	95	75-125	
Cobalt	ug/L	ND	500	483	97	75-125	
Copper	ug/L	ND	500	510	101	75-125	
Lead	ug/L	ND	500	480	96	75-125	
Nickel	ug/L	ND	500	487	97	75-125	
Selenium	ug/L	ND	500	499	100	75-125	
Silver	ug/L	ND	250	240	96	75-125	
Thallium	ug/L	ND	500	476	95	75-125	
Vanadium	ug/L	ND	500	499	100	75-125	
Zinc	ug/L	ND	500	487	96	75-125	

SAMPLE DUPLICATE: 821858

Parameter	Units	92129086001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	60.1J	60.1J	0	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

QC Batch: MSV/20181
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92129086001

METHOD BLANK: 821163
Matrix: Water
Associated Lab Samples: 92129086001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/25/12 00:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/25/12 00:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	08/25/12 00:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/25/12 00:16	
1,1-Dichloroethane	ug/L	ND	5.0	08/25/12 00:16	
1,1-Dichloroethene	ug/L	ND	5.0	08/25/12 00:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/25/12 00:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	08/25/12 00:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/25/12 00:16	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/25/12 00:16	
1,2-Dichloroethane	ug/L	ND	1.0	08/25/12 00:16	
1,2-Dichloropropane	ug/L	ND	1.0	08/25/12 00:16	
1,3-Dichloropropane	ug/L	ND	1.0	08/25/12 00:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/25/12 00:16	
2-Butanone (MEK)	ug/L	ND	100	08/25/12 00:16	
2-Hexanone	ug/L	ND	50.0	08/25/12 00:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	08/25/12 00:16	
Acetone	ug/L	ND	100	08/25/12 00:16	
Acrylonitrile	ug/L	ND	200	08/25/12 00:16	
Benzene	ug/L	ND	1.0	08/25/12 00:16	
Bromochloromethane	ug/L	ND	3.0	08/25/12 00:16	
Bromodichloromethane	ug/L	ND	1.0	08/25/12 00:16	
Bromoform	ug/L	ND	3.0	08/25/12 00:16	
Bromomethane	ug/L	ND	10.0	08/25/12 00:16	
Carbon disulfide	ug/L	ND	100	08/25/12 00:16	
Carbon tetrachloride	ug/L	ND	1.0	08/25/12 00:16	
Chlorobenzene	ug/L	ND	3.0	08/25/12 00:16	
Chloroethane	ug/L	ND	10.0	08/25/12 00:16	
Chloroform	ug/L	ND	5.0	08/25/12 00:16	
Chloromethane	ug/L	ND	1.0	08/25/12 00:16	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/25/12 00:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/25/12 00:16	
Dibromochloromethane	ug/L	ND	3.0	08/25/12 00:16	
Dibromomethane	ug/L	ND	10.0	08/25/12 00:16	
Ethylbenzene	ug/L	ND	1.0	08/25/12 00:16	
Iodomethane	ug/L	ND	10.0	08/25/12 00:16	
Methylene Chloride	ug/L	ND	1.0	08/25/12 00:16	
Styrene	ug/L	ND	1.0	08/25/12 00:16	
Tetrachloroethene	ug/L	ND	1.0	08/25/12 00:16	
Toluene	ug/L	ND	1.0	08/25/12 00:16	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/25/12 00:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/25/12 00:16	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/25/12 00:16	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

METHOD BLANK: 821163 Matrix: Water

Associated Lab Samples: 92129086001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	08/25/12 00:16	
Trichlorofluoromethane	ug/L	ND	1.0	08/25/12 00:16	
Vinyl acetate	ug/L	ND	50.0	08/25/12 00:16	
Vinyl chloride	ug/L	ND	1.0	08/25/12 00:16	
Xylene (Total)	ug/L	ND	5.0	08/25/12 00:16	
1,2-Dichloroethane-d4 (S)	%	115	70-130	08/25/12 00:16	
4-Bromofluorobenzene (S)	%	98	70-130	08/25/12 00:16	
Dibromofluoromethane (S)	%	111	70-130	08/25/12 00:16	
Toluene-d8 (S)	%	104	70-130	08/25/12 00:16	

LABORATORY CONTROL SAMPLE: 821164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,1-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.5	91	70-130	
1,1,2-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethane	ug/L	50	52.8	106	70-130	
1,1-Dichloroethene	ug/L	50	44.6	89	70-132	
1,2,3-Trichloropropane	ug/L	50	46.0	92	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.6	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	70-130	
1,2-Dichlorobenzene	ug/L	50	46.0	92	70-130	
1,2-Dichloroethane	ug/L	50	51.8	104	70-130	
1,2-Dichloropropane	ug/L	50	50.6	101	70-130	
1,3-Dichloropropane	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	45.5	91	70-130	
2-Butanone (MEK)	ug/L	100	92.7J	93	70-145	
2-Hexanone	ug/L	100	99.6	100	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.5J	98	70-140	
Acetone	ug/L	100	86.6J	87	50-175	
Acrylonitrile	ug/L	250	255	102	70-143	
Benzene	ug/L	50	53.6	107	70-130	
Bromochloromethane	ug/L	50	47.8	96	70-130	
Bromodichloromethane	ug/L	50	50.4	101	70-130	
Bromoform	ug/L	50	50.8	102	70-130	
Bromomethane	ug/L	50	38.7	77	54-130	
Carbon disulfide	ug/L	50	45.9J	92	70-131	
Carbon tetrachloride	ug/L	50	52.0	104	70-132	
Chlorobenzene	ug/L	50	48.0	96	70-130	
Chloroethane	ug/L	50	46.3	93	64-134	
Chloroform	ug/L	50	47.8	96	70-130	
Chloromethane	ug/L	50	40.9	82	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

LABORATORY CONTROL SAMPLE: 821164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	49.6	99	70-130	
Dibromomethane	ug/L	50	47.6	95	70-131	
Ethylbenzene	ug/L	50	48.1	96	70-130	
Iodomethane	ug/L	100	80.9	81	49-180	
Methylene Chloride	ug/L	50	43.1	86	63-130	
Styrene	ug/L	50	49.4	99	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	
Toluene	ug/L	50	48.7	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	45.3J	91	70-141	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	38.3	77	62-133	
Vinyl acetate	ug/L	100	99.6	100	66-157	
Vinyl chloride	ug/L	50	43.9	88	69-130	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 821165 821166

Parameter	Units	92129062009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	60.3	57.7	121	115	70-166	4	30	
Benzene	ug/L	ND	50	50	58.8	56.3	118	113	70-148	4	30	
Chlorobenzene	ug/L	ND	50	50	62.1	60.6	124	121	70-146	2	30	
Toluene	ug/L	ND	50	50	65.1	64.0	130	128	70-155	2	30	
Trichloroethene	ug/L	ND	50	50	65.2	64.0	130	128	69-151	2	30	
1,2-Dichloroethane-d4 (S)	%						120	116	70-130			
4-Bromofluorobenzene (S)	%						99	96	70-130			
Dibromofluoromethane (S)	%						115	107	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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QUALIFIERS

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

LABORATORIES

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAYNE CLOSED MSWLF -SW-1
Pace Project No.: 92129086

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92129086001	**SW-1**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129086001	**SW-1**	EPA 8260	MSV/20181		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Wayne Closed MSWLF -SW-1
Container Order Number:	

Section C — Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
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 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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N	N	N	N	N	N	N	N	N	N	N	N	
																					VOCs- App 1	Metals-App 1									
1	SW-1	WT	G			8/23/12	3:25		4			1	3								x	x									92B9086 001
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SW-1 Placed downstream of SW-2 & SW-3 (sic)	Jonathan Pfohl / MESCO	8/23/12	8 AM	[signature]	8-23-12	8:54				
	Left in office									
	[signature]	8-23-12	1535	Janell Cloud Pace	8/23/12	1535	5.1	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: [signature] DATE Signed: 8/23/12

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Engineering Services Project # 92129086

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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 (T1101) T1102 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 5.1 C **Biological Tissue Is Frozen:** Yes No N/A

Date and Initials of person examining contents: 8/23/12

Temp should be above freezing to 6°C

		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:	☐Yes ☑No ☐N/A	12. NO Time NO Date on Samples
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
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	Initial when completed
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.
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: [signature] **Date:** 8/23/12 **SRF Review:** [signature] **Date:** 8/24/12

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)

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Huntersville, NC 28078
(704)875-9092

August 29, 2012

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

RE: Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2012. 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

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CERTIFICATIONS

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

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

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SAMPLE SUMMARY

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92129082001	**SW-2**	Water	08/22/12 17:50	08/23/12 15:35
92129082002	**SW-3**	Water	08/22/12 18:05	08/23/12 15:35

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SAMPLE ANALYTE COUNT

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92129082001	**SW-2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C
92129082002	**SW-3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	KJM	52	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

Sample: SW-2 **Lab ID: 92129082001** Collected: 08/22/12 17:50 Received: 08/23/12 15:35 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	08/25/12 11:00	08/29/12 05:26	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/29/12 05:26	7440-38-2	
Barium	**33.2J**	ug/L	100	5.0	1	08/25/12 11:00	08/29/12 05:26	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/29/12 05:26	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/29/12 05:26	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/29/12 05:26	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/29/12 05:26	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/29/12 05:26	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/29/12 05:26	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/29/12 05:26	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/29/12 05:26	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/29/12 05:26	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/29/12 05:26	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/29/12 05:26	7440-62-2	
Zinc	**10.9**	ug/L	10.0	10.0	1	08/25/12 11:00	08/29/12 05:26	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**11.6J**	ug/L	100	2.2	1		08/25/12 08:23	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 08:23	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 08:23	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 08:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 08:23	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 08:23	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 08:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 08:23	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 08:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 08:23	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 08:23	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 08:23	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 08:23	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 08:23	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 08:23	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 08:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 08:23	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 08:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 08:23	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 08:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 08:23	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 08:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 08:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 08:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 08:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 08:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 08:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 08:23	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 08:23	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

Sample: SW-2 **Lab ID: 92129082001** Collected: 08/22/12 17:50 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 08:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 08:23	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 08:23	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 08:23	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 08:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 08:23	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 08:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 08:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 08:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 08:23	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 08:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 08:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 08:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 08:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 08:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 08:23	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 08:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 08:23	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 08:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/25/12 08:23	460-00-4	
Dibromofluoromethane (S)	126	%	70-130		1		08/25/12 08:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	132	%	70-130		1		08/25/12 08:23	17060-07-0	S3
Toluene-d8 (S)	106	%	70-130		1		08/25/12 08:23	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

Sample: SW-3 **Lab ID: 92129082002** Collected: 08/22/12 18:05 Received: 08/23/12 15:35 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	08/25/12 11:00	08/28/12 16:25	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:25	7440-38-2	
Barium	**59.8J**	ug/L	100	5.0	1	08/25/12 11:00	08/28/12 16:25	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:25	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	08/25/12 11:00	08/28/12 16:25	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:25	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:25	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:25	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:25	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	08/25/12 11:00	08/28/12 16:25	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:25	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	08/25/12 11:00	08/28/12 16:25	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	08/25/12 11:00	08/28/12 16:25	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	08/25/12 11:00	08/28/12 16:25	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	08/25/12 11:00	08/28/12 16:25	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**6.1J**	ug/L	100	2.2	1		08/25/12 08:39	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		08/25/12 08:39	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		08/25/12 08:39	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		08/25/12 08:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		08/25/12 08:39	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		08/25/12 08:39	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		08/25/12 08:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		08/25/12 08:39	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		08/25/12 08:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		08/25/12 08:39	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		08/25/12 08:39	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		08/25/12 08:39	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		08/25/12 08:39	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		08/25/12 08:39	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		08/25/12 08:39	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		08/25/12 08:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		08/25/12 08:39	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		08/25/12 08:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		08/25/12 08:39	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		08/25/12 08:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		08/25/12 08:39	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		08/25/12 08:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		08/25/12 08:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		08/25/12 08:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		08/25/12 08:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		08/25/12 08:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/25/12 08:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		08/25/12 08:39	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		08/25/12 08:39	10061-01-5	

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ANALYTICAL RESULTS

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

Sample: SW-3 **Lab ID: 92129082002** Collected: 08/22/12 18:05 Received: 08/23/12 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		08/25/12 08:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		08/25/12 08:39	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		08/25/12 08:39	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		08/25/12 08:39	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		08/25/12 08:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		08/25/12 08:39	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		08/25/12 08:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		08/25/12 08:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		08/25/12 08:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		08/25/12 08:39	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		08/25/12 08:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		08/25/12 08:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		08/25/12 08:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		08/25/12 08:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		08/25/12 08:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		08/25/12 08:39	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		08/25/12 08:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		08/25/12 08:39	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		08/25/12 08:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/12 08:39	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		08/25/12 08:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1		08/25/12 08:39	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/25/12 08:39	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

QC Batch: MPRP/11347
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92129082001

METHOD BLANK: 821851
Matrix: Water
Associated Lab Samples: 92129082001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	08/29/12 03:47	
Arsenic	ug/L	ND	10.0	08/29/12 03:47	
Barium	ug/L	ND	100	08/29/12 03:47	
Beryllium	ug/L	ND	1.0	08/29/12 03:47	
Cadmium	ug/L	ND	1.0	08/29/12 03:47	
Chromium	ug/L	ND	10.0	08/29/12 03:47	
Cobalt	ug/L	ND	10.0	08/29/12 03:47	
Copper	ug/L	ND	10.0	08/29/12 03:47	
Lead	ug/L	ND	10.0	08/29/12 03:47	
Nickel	ug/L	ND	50.0	08/29/12 03:47	
Selenium	ug/L	ND	10.0	08/29/12 03:47	
Silver	ug/L	ND	10.0	08/29/12 03:47	
Thallium	ug/L	ND	5.5	08/29/12 03:47	
Vanadium	ug/L	ND	25.0	08/29/12 03:47	
Zinc	ug/L	ND	10.0	08/29/12 03:47	

LABORATORY CONTROL SAMPLE: 821852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	463	93	80-120	
Arsenic	ug/L	500	467	93	80-120	
Barium	ug/L	500	475	95	80-120	
Beryllium	ug/L	500	471	94	80-120	
Cadmium	ug/L	500	472	94	80-120	
Chromium	ug/L	500	463	93	80-120	
Cobalt	ug/L	500	470	94	80-120	
Copper	ug/L	500	479	96	80-120	
Lead	ug/L	500	472	94	80-120	
Nickel	ug/L	500	471	94	80-120	
Selenium	ug/L	500	465	93	80-120	
Silver	ug/L	250	233	93	80-120	
Thallium	ug/L	500	451	90	80-120	
Vanadium	ug/L	500	475	95	80-120	
Zinc	ug/L	500	463	93	80-120	

MATRIX SPIKE SAMPLE: 821853

Parameter	Units	92129062001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	477	95	75-125	
Arsenic	ug/L	ND	500	485	97	75-125	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

MATRIX SPIKE SAMPLE: 821853

Parameter	Units	92129062001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	37.3J	500	517	96	75-125	
Beryllium	ug/L	ND	500	481	96	75-125	
Cadmium	ug/L	ND	500	474	95	75-125	
Chromium	ug/L	ND	500	468	94	75-125	
Cobalt	ug/L	ND	500	472	94	75-125	
Copper	ug/L	ND	500	501	99	75-125	
Lead	ug/L	ND	500	468	94	75-125	
Nickel	ug/L	ND	500	473	95	75-125	
Selenium	ug/L	ND	500	479	95	75-125	
Silver	ug/L	ND	250	237	95	75-125	
Thallium	ug/L	6.8	500	453	89	75-125	
Vanadium	ug/L	ND	500	486	97	75-125	
Zinc	ug/L	ND	500	472	94	75-125	

SAMPLE DUPLICATE: 821854

Parameter	Units	92129062002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	60.9J	61.6J	1	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	6.8	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	32.0	ND		25	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

QC Batch: MPRP/11348
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92129082002

METHOD BLANK: 821855
Matrix: Water
Associated Lab Samples: 92129082002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	08/28/12 16:18	
Arsenic	ug/L	ND	10.0	08/28/12 16:18	
Barium	ug/L	ND	100	08/28/12 16:18	
Beryllium	ug/L	ND	1.0	08/28/12 16:18	
Cadmium	ug/L	ND	1.0	08/28/12 16:18	
Chromium	ug/L	ND	10.0	08/28/12 16:18	
Cobalt	ug/L	ND	10.0	08/28/12 16:18	
Copper	ug/L	ND	10.0	08/28/12 16:18	
Lead	ug/L	ND	10.0	08/28/12 16:18	
Nickel	ug/L	ND	50.0	08/28/12 16:18	
Selenium	ug/L	ND	10.0	08/28/12 16:18	
Silver	ug/L	ND	10.0	08/28/12 16:18	
Thallium	ug/L	ND	5.5	08/28/12 16:18	
Vanadium	ug/L	ND	25.0	08/28/12 16:18	
Zinc	ug/L	ND	10.0	08/28/12 16:18	

LABORATORY CONTROL SAMPLE: 821856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	482	96	80-120	
Arsenic	ug/L	500	493	99	80-120	
Barium	ug/L	500	501	100	80-120	
Beryllium	ug/L	500	497	99	80-120	
Cadmium	ug/L	500	495	99	80-120	
Chromium	ug/L	500	485	97	80-120	
Cobalt	ug/L	500	492	98	80-120	
Copper	ug/L	500	505	101	80-120	
Lead	ug/L	500	496	99	80-120	
Nickel	ug/L	500	496	99	80-120	
Selenium	ug/L	500	493	99	80-120	
Silver	ug/L	250	242	97	80-120	
Thallium	ug/L	500	490	98	80-120	
Vanadium	ug/L	500	498	100	80-120	
Zinc	ug/L	500	484	97	80-120	

MATRIX SPIKE SAMPLE: 821857

Parameter	Units	92129082002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	487	97	75-125	
Arsenic	ug/L	ND	500	502	100	75-125	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

MATRIX SPIKE SAMPLE: 821857

Parameter	Units	92129082002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	59.8J	500	552	98	75-125	
Beryllium	ug/L	ND	500	491	98	75-125	
Cadmium	ug/L	ND	500	485	97	75-125	
Chromium	ug/L	ND	500	478	95	75-125	
Cobalt	ug/L	ND	500	483	97	75-125	
Copper	ug/L	ND	500	510	101	75-125	
Lead	ug/L	ND	500	480	96	75-125	
Nickel	ug/L	ND	500	487	97	75-125	
Selenium	ug/L	ND	500	499	100	75-125	
Silver	ug/L	ND	250	240	96	75-125	
Thallium	ug/L	ND	500	476	95	75-125	
Vanadium	ug/L	ND	500	499	100	75-125	
Zinc	ug/L	ND	500	487	96	75-125	

SAMPLE DUPLICATE: 821858

Parameter	Units	92129086001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	60.1J	60.1J	0	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

QC Batch: MSV/20181
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92129082001, 92129082002

METHOD BLANK: 821163
Matrix: Water
Associated Lab Samples: 92129082001, 92129082002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/25/12 00:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/25/12 00:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	08/25/12 00:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/25/12 00:16	
1,1-Dichloroethane	ug/L	ND	5.0	08/25/12 00:16	
1,1-Dichloroethene	ug/L	ND	5.0	08/25/12 00:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	08/25/12 00:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	08/25/12 00:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/25/12 00:16	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/25/12 00:16	
1,2-Dichloroethane	ug/L	ND	1.0	08/25/12 00:16	
1,2-Dichloropropane	ug/L	ND	1.0	08/25/12 00:16	
1,3-Dichloropropane	ug/L	ND	1.0	08/25/12 00:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/25/12 00:16	
2-Butanone (MEK)	ug/L	ND	100	08/25/12 00:16	
2-Hexanone	ug/L	ND	50.0	08/25/12 00:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	08/25/12 00:16	
Acetone	ug/L	ND	100	08/25/12 00:16	
Acrylonitrile	ug/L	ND	200	08/25/12 00:16	
Benzene	ug/L	ND	1.0	08/25/12 00:16	
Bromochloromethane	ug/L	ND	3.0	08/25/12 00:16	
Bromodichloromethane	ug/L	ND	1.0	08/25/12 00:16	
Bromoform	ug/L	ND	3.0	08/25/12 00:16	
Bromomethane	ug/L	ND	10.0	08/25/12 00:16	
Carbon disulfide	ug/L	ND	100	08/25/12 00:16	
Carbon tetrachloride	ug/L	ND	1.0	08/25/12 00:16	
Chlorobenzene	ug/L	ND	3.0	08/25/12 00:16	
Chloroethane	ug/L	ND	10.0	08/25/12 00:16	
Chloroform	ug/L	ND	5.0	08/25/12 00:16	
Chloromethane	ug/L	ND	1.0	08/25/12 00:16	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/25/12 00:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/25/12 00:16	
Dibromochloromethane	ug/L	ND	3.0	08/25/12 00:16	
Dibromomethane	ug/L	ND	10.0	08/25/12 00:16	
Ethylbenzene	ug/L	ND	1.0	08/25/12 00:16	
Iodomethane	ug/L	ND	10.0	08/25/12 00:16	
Methylene Chloride	ug/L	ND	1.0	08/25/12 00:16	
Styrene	ug/L	ND	1.0	08/25/12 00:16	
Tetrachloroethene	ug/L	ND	1.0	08/25/12 00:16	
Toluene	ug/L	ND	1.0	08/25/12 00:16	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/25/12 00:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/25/12 00:16	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/25/12 00:16	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

METHOD BLANK: 821163 Matrix: Water

Associated Lab Samples: 92129082001, 92129082002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	08/25/12 00:16	
Trichlorofluoromethane	ug/L	ND	1.0	08/25/12 00:16	
Vinyl acetate	ug/L	ND	50.0	08/25/12 00:16	
Vinyl chloride	ug/L	ND	1.0	08/25/12 00:16	
Xylene (Total)	ug/L	ND	5.0	08/25/12 00:16	
1,2-Dichloroethane-d4 (S)	%	115	70-130	08/25/12 00:16	
4-Bromofluorobenzene (S)	%	98	70-130	08/25/12 00:16	
Dibromofluoromethane (S)	%	111	70-130	08/25/12 00:16	
Toluene-d8 (S)	%	104	70-130	08/25/12 00:16	

LABORATORY CONTROL SAMPLE: 821164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,1-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.5	91	70-130	
1,1,2-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethane	ug/L	50	52.8	106	70-130	
1,1-Dichloroethene	ug/L	50	44.6	89	70-132	
1,2,3-Trichloropropane	ug/L	50	46.0	92	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.6	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	70-130	
1,2-Dichlorobenzene	ug/L	50	46.0	92	70-130	
1,2-Dichloroethane	ug/L	50	51.8	104	70-130	
1,2-Dichloropropane	ug/L	50	50.6	101	70-130	
1,3-Dichloropropane	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	45.5	91	70-130	
2-Butanone (MEK)	ug/L	100	92.7J	93	70-145	
2-Hexanone	ug/L	100	99.6	100	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.5J	98	70-140	
Acetone	ug/L	100	86.6J	87	50-175	
Acrylonitrile	ug/L	250	255	102	70-143	
Benzene	ug/L	50	53.6	107	70-130	
Bromochloromethane	ug/L	50	47.8	96	70-130	
Bromodichloromethane	ug/L	50	50.4	101	70-130	
Bromoform	ug/L	50	50.8	102	70-130	
Bromomethane	ug/L	50	38.7	77	54-130	
Carbon disulfide	ug/L	50	45.9J	92	70-131	
Carbon tetrachloride	ug/L	50	52.0	104	70-132	
Chlorobenzene	ug/L	50	48.0	96	70-130	
Chloroethane	ug/L	50	46.3	93	64-134	
Chloroform	ug/L	50	47.8	96	70-130	
Chloromethane	ug/L	50	40.9	82	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	

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QUALITY CONTROL DATA

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

LABORATORY CONTROL SAMPLE: 821164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	49.6	99	70-130	
Dibromomethane	ug/L	50	47.6	95	70-131	
Ethylbenzene	ug/L	50	48.1	96	70-130	
Iodomethane	ug/L	100	80.9	81	49-180	
Methylene Chloride	ug/L	50	43.1	86	63-130	
Styrene	ug/L	50	49.4	99	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	
Toluene	ug/L	50	48.7	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	45.3J	91	70-141	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	38.3	77	62-133	
Vinyl acetate	ug/L	100	99.6	100	66-157	
Vinyl chloride	ug/L	50	43.9	88	69-130	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 821165 821166

Parameter	Units	92129062009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	60.3	57.7	121	115	70-166	4	30	
Benzene	ug/L	ND	50	50	58.8	56.3	118	113	70-148	4	30	
Chlorobenzene	ug/L	ND	50	50	62.1	60.6	124	121	70-146	2	30	
Toluene	ug/L	ND	50	50	65.1	64.0	130	128	70-155	2	30	
Trichloroethene	ug/L	ND	50	50	65.2	64.0	130	128	69-151	2	30	
1,2-Dichloroethane-d4 (S)	%						120	116	70-130			
4-Bromofluorobenzene (S)	%						99	96	70-130			
Dibromofluoromethane (S)	%						115	107	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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QUALIFIERS

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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TNI - The NELAC Institute.

LABORATORIES

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

ANALYTE QUALIFIERS

S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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without the written consent of Pace Analytical Services, Inc..

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

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAYNE MSWLF -SWS
Pace Project No.: 92129082

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92129082001	**SW-2**	EPA 3010	MPRP/11347	EPA 6010	ICP/10404
92129082002	**SW-3**	EPA 3010	MPRP/11348	EPA 6010	ICP/10405
92129082001	**SW-2**	EPA 8260	MSV/20181		
92129082002	**SW-3**	EPA 8260	MSV/20181		

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Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company:	Municipal Engineering Services
Address:	P.O. Box 97
	Garner, NC 27529
Email To:	jpfohl@mesco.com
Phone:	919-772-5393 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B
Required Project Information:

Report To:	Jonathan Pfohl
Copy To:	
Purchase Order No.	
Client Project ID:	Wayne MSWLF-SWs
Container Order Number:	

Section C
Invoice Information:

Attention:	Municipal Engineering Services
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Kevin Godwin
Pace Profile #:	

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

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

ITEM#	SAMPLE ID	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	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N			VOCs- App 1	Metals-App 1									
																				N	N	N	N	N	N	N	N	N	N	N	N	N
1	SW-2	WT	G			8/22/12	5:50		4			1	3									x	x									
2	SW-3	WT	G			8/22/12	6:05		4			1	3									x	x									
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

92129082

002
002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SW-2 Lined Mid stream near access road	[signature] / MESCO	8/23/12	8:00AM	[signature]	8-23-12	8:54				
SW-3 Shared downsrtream of SW-2 & upstream of SW-1	left in office									
	[signature]	8-23-12	1535	Yarrell Cloud Pace	8/23/12	1535	5.1	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: [signature] DATE Signed: 8/22/12

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Municipal Engineering Services Project # 92129082

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

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

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

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

Thermometer Used: IR Gun **T1101** **T1102** **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 5.1 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 8/23/12

		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:	☐Yes ☑No ☐N/A	12. No Date No Time on Samples
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
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	Initial when completed
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.
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: JD **Date:** 8/23/12 **SRF Review:** JD **Date:** 8/24/12

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)

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Wednesday, October 3, 2012

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Wayne Closed MSWLF
ENCO Workorder(s): C210940

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Monday, September 17, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 12.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-4	Lab ID: C210940-01	Sampled: 09/14/12 14:00	Received: 09/17/12 09:00

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	09/21/12	10/31/12	09/21/12	11:30	10/2/2012 00:16

SAMPLE DETECTION SUMMARY

No positive results detected.

www.encolabs.com

ANALYTICAL RESULTS

Description: MW-4 **Lab Sample ID:** C210940-01 **Received:** 09/17/12 09:00

Matrix: Ground Water **Sampled:** 09/14/12 14:00 **Work Order:** C210940

Project: Wayne Closed MSWLF **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/02/12 00:16	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/02/12 00:16	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/02/12 00:16	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/02/12 00:16	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/02/12 00:16	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/02/12 00:16	DFM	QV-01
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/02/12 00:16	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/02/12 00:16	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/02/12 00:16	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/02/12 00:16	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/02/12 00:16	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/02/12 00:16	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/02/12 00:16	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/02/12 00:16	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/02/12 00:16	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/02/12 00:16	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/02/12 00:16	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/02/12 00:16	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/02/12 00:16	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	

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Description: MW-4 | **Lab Sample ID:** C210940-01 | **Received:** 09/17/12 09:00

Matrix: Ground Water | **Sampled:** 09/14/12 14:00 | **Work Order:** C210940

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/02/12 00:16	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/02/12 00:16	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/02/12 00:16	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/02/12 00:16	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/02/12 00:16	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/02/12 00:16	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/02/12 00:16	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/02/12 00:16	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/02/12 00:16	DFM	QV-01
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/02/12 00:16	DFM	QV-02
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/02/12 00:16	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/02/12 00:16	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/02/12 00:16	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/02/12 00:16	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/02/12 00:16	DFM	

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Description: MW-4 | **Lab Sample ID:** C210940-01 | **Received:** 09/17/12 09:00

Matrix: Ground Water | **Sampled:** 09/14/12 14:00 | **Work Order:** C210940

Project: Wayne Closed MSWLF | **Sampled By:** J. Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/02/12 00:16	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/02/12 00:16	DFM	QV-01
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/02/12 00:16	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/02/12 00:16	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/02/12 00:16	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/02/12 00:16	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/02/12 00:16	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/02/12 00:16	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/02/12 00:16	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/02/12 00:16	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*74*	*1*	*100*	*74 %*	*10-179*	*2I20020*	*EPA 8270D*	*10/02/12 00:16*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*81 %*	*10-149*	*2I20020*	*EPA 8270D*	*10/02/12 00:16*	*DFM*	
2-Fluorophenol	*55*	*1*	*100*	*55 %*	*10-110*	*2I20020*	*EPA 8270D*	*10/02/12 00:16*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*77 %*	*10-149*	*2I20020*	*EPA 8270D*	*10/02/12 00:16*	*DFM*	
Phenol-d5	*42*	*1*	*100*	*42 %*	*10-88*	*2I20020*	*EPA 8270D*	*10/02/12 00:16*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*89 %*	*10-188*	*2I20020*	*EPA 8270D*	*10/02/12 00:16*	*DFM*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2I20020 - EPA 3510C_MS

Blank (2I20020-BLK1) Prepared: 09/20/2012 14:45 Analyzed: 09/25/2012 09:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							QV-01
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2I20020 - EPA 3510C_MS

Blank (2I20020-BLK1) Continued Prepared: 09/20/2012 14:45 Analyzed: 09/25/2012 09:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							QV-01
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							QV-02
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							QV-01
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2I20020 - EPA 3510C_MS

Blank (2I20020-BLK1) Continued Prepared: 09/20/2012 14:45 Analyzed: 09/25/2012 09:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*79*			*ug/L*	*100*		*79*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*36*			*ug/L*	*50.0*		*73*	*10-149*			
Surrogate: 2-Fluorophenol	*51*			*ug/L*	*100*		*51*	*10-110*			
Surrogate: Nitrobenzene-d5	*36*			*ug/L*	*50.0*		*72*	*10-149*			
Surrogate: Phenol-d5	*40*			*ug/L*	*100*		*40*	*10-88*			
Surrogate: Terphenyl-d14	*41*			*ug/L*	*50.0*		*83*	*10-188*			

LCS (2I20020-BS1) Prepared: 09/20/2012 14:45 Analyzed: 09/25/2012 10:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	39		10	ug/L	50.0		78	40-109			
4-Chloro-3-methylphenol	44		10	ug/L	50.0		89	58-121			
4-Nitrophenol	30		10	ug/L	50.0		61	33-105			
Acenaphthene	42		10	ug/L	50.0		83	39-125			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0		82	48-126			
Phenol	24		10	ug/L	50.0		49	19-78			
Pyrene	40		10	ug/L	50.0		79	44-137			
Surrogate: 2,4,6-Tribromophenol	*89*			*ug/L*	*100*		*89*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*86*	*10-149*			
Surrogate: 2-Fluorophenol	*60*			*ug/L*	*100*		*60*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: Phenol-d5	*49*			*ug/L*	*100*		*49*	*10-88*			
Surrogate: Terphenyl-d14	*41*			*ug/L*	*50.0*		*83*	*10-188*			

Matrix Spike (2I20020-MS1) Prepared: 09/20/2012 14:45 Analyzed: 09/25/2012 10:49

Source: C210880-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	37		10	ug/L	50.0	1.2 U	75	40-109			
4-Chloro-3-methylphenol	46		10	ug/L	50.0	1.5 U	92	58-121			
4-Nitrophenol	32		10	ug/L	50.0	2.0 U	64	33-105			
Acenaphthene	42		10	ug/L	50.0	1.4 U	83	39-125			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.5 U	82	48-126			
Phenol	24		10	ug/L	50.0	1.4 U	48	19-78			
Pyrene	41		10	ug/L	50.0	2.1 U	82	44-137			
Surrogate: 2,4,6-Tribromophenol	*89*			*ug/L*	*100*		*89*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: 2-Fluorophenol	*54*			*ug/L*	*100*		*54*	*10-110*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*78*	*10-149*			
Surrogate: Phenol-d5	*46*			*ug/L*	*100*		*46*	*10-88*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*84*	*10-188*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 2I20020 - EPA 3510C_MS

Matrix Spike Dup (2I20020-MSD1) Prepared: 09/20/2012 14:45 Analyzed: 09/25/2012 11:18

Source: C210880-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	40		10	ug/L	50.0	1.2 U	80	40-109	7	22	
4-Chloro-3-methylphenol	46		10	ug/L	50.0	1.5 U	92	58-121	0.3	22	
4-Nitrophenol	30		10	ug/L	50.0	2.0 U	61	33-105	5	27	
Acenaphthene	43		10	ug/L	50.0	1.4 U	85	39-125	2	25	
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0	1.5 U	84	48-126	2	23	
Phenol	26		10	ug/L	50.0	1.4 U	52	19-78	9	18	
Pyrene	40		10	ug/L	50.0	2.1 U	81	44-137	2	24	
Surrogate: 2,4,6-Tribromophenol	*85*			*ug/L*	*100*		*85*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*85*	*10-149*			
Surrogate: 2-Fluorophenol	*62*			*ug/L*	*100*		*62*	*10-110*			
Surrogate: Nitrobenzene-d5	*40*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: Phenol-d5	*50*			*ug/L*	*100*		*50*	*10-88*			
Surrogate: Terphenyl-d14	*41*			*ug/L*	*50.0*		*82*	*10-188*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
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.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Page 1 of 1

Client Name: Municipal Engineering Services	Project Number:
Address:	Project Name/Desc: Wayne Closed MSW LF
City/ST/Zip: Goldsboro NC 27529	PO # / Billing Info:
Tel: (919) 872-5393 Fax:	Reporting Contact: J. Pfohl
Sampler(s) Name, Affiliation (Print): J Pfohl	Billing Contact: See AP
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses: SVOCs - App 2

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C210940

Preservation (See Codes) (Combine as necessary): I

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	I	Sample Comments
	MW-4	9/14/12	2:00PM	Grab	GW	1	✓	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: MESCO Locked in office Refrigerator	Date/Time: 9/14/12 6:00PM	Received By: Rachel Yonish	Date/Time: 9-17-12 9:00
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 2.6°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

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Appendix B
Field Sampling Parameter Data Sheet(s)

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Wayne Co Closed MSWLF & Active C&D LF, Dudley

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	Notes	Total Depth	Water Quality Parameters: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors (ppm)
MW-1	8/22/12	9:35	17.52	AM ○	8	P&DB	N		25	NR	6.8	288	5.03	18.2	10	0	142 c	NR
MW-2	8/21/12	5:10	5.92	AM ○	8	DB	Y	Funny	15		7.8	-97	6.42	21.7	1,100	500	93 c	
MW-3	8/21/12	4:30	0.81	AM ○	10	DB	N		18		0.4	27	6.07	19.9	400	190	c	
MW-4	8/21/12	2:10	7.52	AM	5	DB	N	Very Fast Recharge	15		0.9	203	4.99	18.1	100	50	c	
MW-5	8/21/12	12:00	7.72	AM ○	8	DB	N		18		1.1	119	4.83	20.1	70	30	ST	
MW-6	8/21/12	1:35	6.32	AM ○	7	DB	N		18.14		1.3	287	4.81	18.9	460	220	ST	
MW-7	8/21/12	2:50	9.62	AM ○	7	DB	N		19		2.3	291	5.03	20.2	90	40	c	
MW-8	8/22/12	11:10	20.89	AM	10	P&DB	N		29		2.1	289	4.98	16.9	50	20	301 ST	
MW-9	8/22/12	10:40	21.34	AM	4	DB	Y		25 ✓		1.6	223	4.52	17.1	40	20	MT	
MW-10	8/22/12	10:05	19.62	AM	5	DB	N		25 ✓		2.4	321	5.93	18.1	70	30	ST	
MW-11	8/21/12	3:50	3.91	AM	3	DB	N		15 ✓	↓	2.3	183	6.12	19.8	70	30	ST	↓
SW-2	NS	DRY						Upstream Nearest MW-7										
																		↓
SW-Bypass-2	8/21/12	2:25	Supplemental Not Required	Arsenic VOCs		DB				NR	6.3	37	6.23	25.1	120	50	c	—

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

RETRANSCRIBE

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Wayne Co MSWLF, Dudley- Shared Surface Waters

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Lab Parameters to be analyzed for	Sample Type	Visual Gage Height	Visual Flow Rate	Notes	Water Quality Parameters: DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity
SW-2	DW	NS	DM				Closed Upstream							
SW-1	8/22/12	3:25	I	Dip	Normal	Normal	Downstream of SW-2 (closed) & SW-3 (slow)	6.4	33	5.99	25.1	160	70	C
SW-2	8/22/12	5:50	I	Dip	Normal	Slow	Lined Near Lees Rd (Mid stream)	6.3	29	6.07	24.8	180	90	ST
SW-3	NS	DRY	I	~~Dip~~ NS	Normal	Normal	up stream - F. Nbout East side							-
SW-3	8/22/12	6:05	I	Dip	Normal	Normal	Shared Downstream SW-2 & upstream of SW-1	6.2	41	6.19	24.8	140	60	C

Comments

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