Piedmont Landfill
and Recycling Center
9900 Freeman Road
Kernersville, North Carolina 27284
910/595-6677
FAX: 910/595-9735

A Waste Management Company

Carmen Johnson

Fac/Perm/Co ID # 34-06 | Date 8/9/13 | Doc ID# | DIN

January 31, 1998

Ms. Sherri Coghill
North Carolina Dept of Environment and Natural Resources
Division of Waste Management (DWM)
401 Oberlin Road
Raleigh, NC 27611

Re: Leachate Management Submittal as Required by October 17, 1994 Solid Waste Permit Condition **OPERATION (O) 3 (c)**; Piedmont Landfill & Recycling Center (PLFRC), Kernersville, NC

Dear Ms. Coghill:

In accordance with the above referenced Solid Waste Permit Condition, the PLFRC hereby submits the required information. As you can see, this information pertains to our leachate record keeping and monitoring requirements.

We have interpreted this Permit Condition to mean that the report contain records of leachate removed from each leachate sump and, in the case of Sump D, contain quantities of leachate recirculated.

If you have any questions, feel free to contact either myself or Ed Gibson @ (336) 595-6677.

Sincerely,

William R. Lewis, P.E.
Division Manager

FEB 1998
Received
Solid Waste
Section

cc: Ed Gibson

Printed on Recycled Paper

WMX Technology Center, Inc.
Analytical Report Transmittal Memorandum

Date: May 10, 1997

To: Ed Gibson

Report Type
All

From: Donna Ingersoll

Subject: Piedmont Landfill - 97-11265

Please find enclosed the current Client Report, Field Information Forms, and Field Chain-of-Custody Records for the recent event at Piedmont Landfill.

The data has been compared to historical data, where available. We have tried to provide a report that is complete and of known and documented quality. Please take a moment to review the enclosed report to ensure it meets your expectations.

If you have any questions, don't hesitate to call Kyle Dardis at (630)208-3143.

Received
5/12/97

Routine, semi-annual, Appendix I
LEACHATE

Mail Code: 2

Enclosed are the analytical results for samples received from your facility. The results in the Client Report are for a single ENS (Event Notification System) number only. The sampling event at your facility may include multiple ENS numbers. A separate Client Report will be generated for each one.

It is the goal of the WMX Technology Center to provide analytical data in a timely fashion, formatted in a way that our clients will find most useful.

If you have any questions concerning the form or content of this report, please contact the WMX-TC Customer Operations Department:

Main Number (708) 208-3100
FAX Number (708) 208-1175

Note: Two designations may appear in the results column of your Client Report: NA or ND.

The designation NA (for "Not Analyzed") is used to identify analytes which were requested in the monitoring program, but for which no suitable testing methodology exists. NA may also indicate a dry well, broken sample bottle, insufficient sample volume, or other condition which precludes analysis for a sample.

The designation ND (for "Not Detected") is used to indicate that the analyte of interest was not found at or above the concentration listed under the EMLRL (EML Reporting Limit) heading.

Unless otherwise indicated, all analytes meet the requirements of holding time as specified in the method.

Roy S. Gall, Ph.D.
President
WMX Technology Center

WMX TECHNOLOGY [illegible] TER, INC.

EVENT SUMMARY REPORT

Site: 134 - Piedmont Landfill
Disposal Facility
9900 Freeman Road
Kernersville NC 27284

ENS: 97-11265
MP: 134973
Rev / Task: 01 / 01
Sample Type: LEACHATE
Reported: 10-MAY-1997

Analyte / Sample Point: / Sample Number: / Sampled:	134-T01 AR1583 15-APR-1997	EML RL	TBK-T01 AR1583 15-APR-1997	EML RL			Units
FIELD DATA:							
PH FIELD	6.57						PH UNITS
SPECIFIC CONDUCTANCE FIELD	1520						UMHOS/CM
WATER TEMPERATURE IN DEG. CELSIUS FIELD	18.5						DEGREES C
CHEMICAL METHODS & ROBOTICS:							
CHEMICAL OXYGEN DEMAND	4650	100.					MG/L
NITROGEN, NITRATE	ND	0.050					MG/L
PHOSPHOROUS, TOTAL	ND	0.20					MG/L
INORGANICS:							
ANTIMONY-TOTAL	13.2	6.00					UG/L
ARSENIC-TOTAL	14.8	10.0					UG/L
BARIUM-TOTAL	1140	500.					UG/L
BIOCHEMICAL OXYGEN DEMAND	3090	1200					MG/L
CADMIUM-TOTAL	1.8	1.00					UG/L
CHROMIUM-TOTAL	42.1	10.0					UG/L
COPPER-TOTAL	ND	200.					UG/L
LEAD-TOTAL	ND	10.0					UG/L
NICKEL-TOTAL	68.5	50.0					UG/L
SELENIUM-TOTAL	ND	20.0					UG/L
SILVER-TOTAL	ND	10.0					UG/L
SULFATE	19.7	6.0					MG/L
THALLIUM-TOTAL	ND	2.00					UG/L
TIN-TOTAL	ND	100.					UG/L
ZINC-TOTAL	ND	50.0					UG/L
SUB-CONTRACT DATA:							
BERYLLIUM-TOTAL	ND s	2.00					UG/L
COBALT-TOTAL	57 s	5.00					UG/L
VANADIUM-TOTAL	15 s	10.0					UG/L
VOLATILE ORGANICS:							
1,1,1,2-TETRACHLOROETHANE	ND	10.	ND	5			UG/L
1,1,1-TRICHLOROETHANE	ND	10.	ND	5			UG/L
1,1,2,2-TETRACHLOROETHANE	ND	15	ND	5			UG/L
1,1,2-TRICHLOROETHANE	ND	10.	ND	5			UG/L
1,1-DICHLOROETHANE	38	10.	ND	5			UG/L
1,1-DICHLOROETHENE	ND	15	ND	5			UG/L
1,2,3-TRICHLOROPROPANE	ND	30.	ND	10.			UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1					UG/L
1,2-DIBROMOETHANE	ND	1					UG/L
1,2-DICHLOROBENZENE	ND	10.	ND	10.			UG/L
1,2-DICHLOROETHANE	ND	10.	ND	5			UG/L
1,2-DICHLOROPROPANE	ND	10.	ND	5			UG/L
1,4-DICHLOROBENZENE	ND	10.	ND	10.			UG/L
2-BUTANONE	6300	130	ND	10.			UG/L
2-HEXANONE	ND	45	ND	10.			UG/L
4-METHYL-2-PENTANONE	250	40.	ND	10.			UG/L

NA = Not Analyzed ND = Not Detected TBK = Trip Blank s = EML Subcontract Data

E V E N T S U M M A R Y R E P O R T

Site: 134 - Piedmont Landfill
Disposal Facility
9900 Freeman Road
Kernersville NC 27284

ENS: 97-11265
MP: 134973
Rev / Task: 01 / 01
Sample Type: LEACHATE
Reported: 10-MAY-1997

Analyte	Sample Point: / Sample Number: / Sampled:	134-T01 AR1583 15-APR-1997	EML RL	TBK-T01 AR1583 15-APR-1997	EML RL			Units
ACETONE		4600	250	ND	34			UG/L
ACRYLONITRILE		ND	200.	ND	200.			UG/L
BENZENE		ND	10.	ND	5			UG/L
BROMOCHLOROMETHANE		ND	10.	ND	10.			UG/L
BROMODICHLOROMETHANE		ND	10.	ND	5			UG/L
BROMOFORM		ND	10.	ND	5			UG/L
BROMOMETHANE		ND	15	ND	10.			UG/L
CARBON DISULFIDE		ND	10.	ND	5			UG/L
CARBON TETRACHLORIDE		ND	15	ND	5			UG/L
CHLOROBENZENE		ND	10.	ND	5			UG/L
CHLOROETHANE		19	15	ND	10.			UG/L
CHLOROFORM		ND	10.	ND	5			UG/L
CHLOROMETHANE		ND	20.	ND	10.			UG/L
CIS-1,2-DICHLOROETHENE		ND	15	ND	10.			UG/L
CIS-1,3-DICHLOROPROPENE		ND	10.	ND	5			UG/L
DIBROMOCHLOROMETHANE		ND	5	ND	5			UG/L
DIBROMOMETHANE		ND	10.	ND	10.			UG/L
ETHYLBENZENE		31	10.	ND	5			UG/L
IODOMETHANE		ND	15	ND	10.			UG/L
METHYLENE CHLORIDE		200	15	ND	5			UG/L
STYRENE		ND	10.	ND	5			UG/L
TETRACHLOROETHENE		ND	15	ND	5			UG/L
TOLUENE		220	10.	ND	5			UG/L
TRANS-1,2-DICHLOROETHENE		ND	15	ND	10.			UG/L
TRANS-1,3-DICHLOROPROPENE		ND	10.	ND	5			UG/L
TRANS-1,4-DICHLORO-2-BUTENE		ND	25	ND	10.			UG/L
TRICHLOROETHENE		ND	10.	ND	5			UG/L
TRICHLOROFLUOROMETHANE		ND	15	ND	10.			UG/L
VINYL ACETATE		ND	35	ND	10.			UG/L
VINYL CHLORIDE		ND	15	ND	10.			UG/L
XYLENE(TOTAL)		68	30.	ND	10.			UG/L

NA = Not Analyzed ND = Not Detected TBK = Trip Blank s = EML Subcontract Data

Subcontract To: _____

WMX Technology Center, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # _____
Date Sealed YY / MM / DD
Seal # _____
By: _____

SITE/FACILITY # _____ SITE NAME: _____

Sample Point: _____ (Source Code)

SAMPLE DATE: 97/04/15 (YY / MM / DD)

SAMPLE TIME: 13:50 (2400 HR.)

MATRIX CODE: C

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:

Well (W) Leachate System (C) Pretreatment Facility (P) River/Stream/Brook (R) Soil (S) Generation Pt (G)
Dewatering Pressure Relief (D) Gas Condensate (M) Influent (U) Lake or Ocean (L) Bottom Sediment (B) Other (X)
Surface Water Impoundment (I) Air (A) Effluent (T) Outfall (O) Noise (N) Specify _____

ENS # _____

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
	SHIP	ALL	BOTTLES LISTED BELOW TO S		Y N		
[illegible]-1	01	P	HNO3	SB 02 METHODS	Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) _____ Date: _____ Time: _____ 2400 HR.
Signature: _____ Seal #: _____ Intact: _____

I have received these materials in good condition from the above person.

2. Name: _____ Signature: _____
Date: / / Time: : 2400 HR. Remarks: _____

I have received these materials in good condition from the above person.

3. Name: _____ Signature: _____
Date: / / Time: : 2400 HR. Remarks: _____

4. AquaPak™/Sub Contr. # _____ Sealed By: _____ (Print) Date _____ Time _____ 2400 HR
Signature: _____ Seal # _____ Intact. _____

LAB USE ONLY
Opened By: (Signature) _____ Date: / / Time: : 2400 HR.
AquaPak™/Sub. Contr. # _____ Temp.°C _____ Seal # _____ Intact. _____

JMX Environmental Monitoring Laboratories, Inc.

FIELD INFORMATION FORM

Site #

Bottle Set:

Sample Point: — 2

Source Code

INFO

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)

Purging Equipment ..... Dedicated | Y | | N | (circle one)

Sampling Equipment ..... Dedicated | Y | | N | (circle one)

Purging Device		A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device		B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material		A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material		B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging		A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling		B-Tygon C-Rope X- (SPECIFY)	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
Filtering Devices 0.45 µ		A-In-line Disposable	B-Pressure	C-Vacuum	

EXCEPTIONAL SAMPLE

FIELD MEASUREMENTS

Well Elevation	(ft/msl)		Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	(ft)		Depth to water From land surface	(ft)
Groundwater Elevation	(ft/msl)		Groundwater Elevation	(ft/msl)
Well Depth	(ft)		Stickup	(ft)

	ph		spec cond		
1st	7.97 (STD)	1st	1220 µm/cm at 25° C	Sample Temp.	15.5 (° C)
2nd	(STD)	2nd	µm/cm at 25° C	(other parameter) / value / units	
3rd	(STD)	3rd	µm/cm at 25° C	(other parameter) / value / units	
4th	(STD)	4th	µm/cm at 25° C	(other parameter) / value / units	

COMMENTS

Sample Appearance: (if applicable) Odor: Color: Turbidity:

Weather Conditions: Wind Speed Direction Precipitation Y/N Outlook

Specific Comments:

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

Date: 4/17/97 (Signature) Employer:

EML FF-2R 11/94

REGION

Subcontract To: _____

WMX Technology Center, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # [illegible]
Date Sealed [illegible] YY / MM / DD
Seal # [illegible]
By: [illegible]

SITE/FACILITY # 134 SITE NAME: Piedmont Landfill

Sample Point: [illegible] Source Code

SAMPLE DATE: 9 7 0 4 1 5 YY / MM / DD

SAMPLE TIME: 1 3 : 5 0 (2400 HR.) MATRIX CODE: C

Water ..... (W) Soil ..... (S) Leachate ..... (C) Other ..... (X)

Source Codes:

Well ..... (W)	Leachate System .. (C)	Pretreatment Facility ... (P)	River/Stream/Brook .. (R)	Soil ..... (S)	Generation Pt .... (G)
Gastering/Pressure Relief .... (D)	Gas Condensate ... (M)	Influent ..... (U)	Lake or Ocean ..... (L)	Bottom Sediment ... (B)	Other ..... (X)
Surface Water Impoundment ... (I)	Air ..... (A)	Effluent ..... (T)	Outfall ..... (O)	Noise ..... (N)	Specify _____

ENS # [illegible]

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
AR1583-A	01	P	H2SO4 4C	CRCODXXX01	Y N	EML	
AR1583-B	01	P	H2SO4 4C	CRTPXXXX02	Y N	EML	
AR1583-C	01	P	NONE 4C	CRNO3HYD01	Y N	EML	48 HR NIT
AR1583-D	01	P	HNO3	IN 13 METHODS	Y N	EML	
AR1583-E	01	P	NONE 4C	INICXXSO4X	Y N	EML	
AR1583-F	01	P	NONE 4C	INBODXXX01	Y N	EML	BOD
AR1583-G	02	G	NONE 4C	VOGCEAN104	Y N	EML	
AR1583-H	04	G	HCL 4C	VO 02 METHODS	Y N	EML	
AR1583-I	01	P	HNO3	SB 02 METHODS	Y N	SAVANNAH	
AR1583-J	01	G	NONE 4C	VOGCEAN104	Y N	EML [illegible]	2 TBR [illegible]
AR1583-K	01	G	HCL 4C	VO 02 METHODS	Y N	EML [illegible]	[illegible]
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) M. McFeeley Date: 4/2/97 Time: 12:00 (2400 HR.)
   Signature: [signature] Seal #: [illegible] Intact: ✓

2. I have received these materials in good condition from the above person.
   Name: _____ Signature: _____
   Date: / / Time: : (2400 HR.) Remarks: _____

3. I have received these materials in good condition from the above person.
   Name: _____ Signature: _____
   Date: / / Time: : (2400 HR.) Remarks: _____

4. AquaPak™/Sub Contr. # _____ Sealed By: M. McFeeley (Print) Date: 4/15/97 Time: [illegible] (2400 HR)
   Signature: [signature] Seal #: [illegible] Intact: _____

LAB USE ONLY
Opened By: (Signature) [signature] Date: 4/16/97 Time: 11:36 (2400 HR.)
AquaPak™/Sub. Contr. # 2159 Temp.°C 6 Seal # [illegible] Intact. ✓

Waste Management Technology Center, Inc.
2100 Cleanwater Drive
Geneva. Illinois 60134
(630)208-3100
Fax: (630)208-1175

Analytical Report Transmittal Memorandum

Date: November 13, 1997

Report Type
All

To: Ed Gibson

From: Donna Ingersoll

Subject: Piedmont Landfill - 97-13909
North Carolina Certification # is 475

Please find enclosed the current Client Report, Field Information Forms, and Field Chain-of-Custody Records for the recent event at Piedmont Landfill.

The data has been compared to historical data, where available. We have tried to provide a report that is complete and of known and documented quality. Please take a moment to review the enclosed report to ensure it meets your expectations.

If you have any questions, don't hesitate to call Kyle Dardis at (630)208-3143.

Appendix 1
Leachate

Mail Code: 1

Enclosed are the analytical results for samples received from your facility. The results in the Client Report are for a single ENS (Event Notification System) number only. The sampling event at your facility may include multiple ENS numbers. A separate Client Report will be generated for each one.

It is the goal of the WMX Technology Center to provide analytical data in a timely fashion, formatted in a way that our clients will find most useful.

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Main Number (708) 208-3100
FAX Number (708) 208-1175

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The designation NA (for "Not Analyzed") is used to identify analytes which were requested in the monitoring program, but for which no suitable testing methodology exists. NA may also indicate a dry well, broken sample bottle, insufficient sample volume, or other condition which precludes analysis for a sample.

The designation ND (for "Not Detected") is used to indicate that the analyte of interest was not found at or above the concentration listed under the EMLRL (EML Reporting Limit) heading.

Unless otherwise indicated, all analytes meet the requirements of holding time as specified in the method.

Roy S. Gall, Ph.D.
President
WMX Technology Center

NMX TECHNOLOGY CENTER, INC.

DATA QUALIFIER REPORT

Site: 134 - Piedmont Landfill

ENS: 97-13909

Report Date: 13-NOV-1997

Sample Pt	Samp Date	Analyte	Method	Comment	Additional Comments Explanations (NQ/DL)
T01	15-OCT-1997	CHEMICAL OXYGEN DEMAND	CRCODXXX01	DL	Dilution factor 10 applied.
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INICPTOTBA	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INICPTOTCU	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INICPTOTNI	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INICPTOTZN	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTAG	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTAS	PX	
T01	15-OCT-1997	ARSENIC-TOTAL	INTJATOTAS	BL	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTBE	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTCD	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTCO	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTCR	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTPB	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTSB	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTSE	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTTL	PX	
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	INTJATOTXV	PX	
T01	15-OCT-1997	SULFATE	INICXXSO4X	DL	Dilution factor 5 applied.
T01	15-OCT-1997	BIOCHEMICAL OXYGEN DEMAND	INBODXXX01	DL,NQ	A GGA standard was outside of the control limits required by the method (167.5-228.5 mg/L). However, the GGA standard was within the laboratory historical limits. THE SEED CORRECTION FACTOR WAS OUTSIDE THE RANGE OF .6-10. Dilution factor 150 applied. RESULTS CONFIRMED ON YS200 W/PASSING GGA'S.
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	VOMSBAA004	DL	Dilution factor 6.2500 applied.
T01	15-OCT-1997	ACRYLONITRILE	VOMSBAA004	NQ	Analyzed by approved screen methodology per EPA Method 624 or analyzed quantitatively per SW-846 methods.
T01	15-OCT-1997	EVERY ANALYTE FOR THIS METHOD	VOMSBAX435	DL	Dilution factor 6.2500 applied.

WMX TECHNOLOGY CENTER, INC.

DATA QUALIFIER REPORT

Site: 134 - Piedmont Landfill

ENS: 97-13909

Report Date: 13-NOV-1997

Code	Data Qualifier Comment Code Definition
BL	The method blank concentrations associated with this analyte did not meet the acceptance criteria of the method.
DL	Sample diluted; reporting limits have been adjusted where necessary.
NQ	No standard qualifier code is in use for this qualification. See the associated comment.
PX	This sample required preservation in the field to a pH of less than 2. The pH was checked before analysis and did not have a pH of less than 2.

EVENT SUMMARY REPORT

Site: 134 - Piedmont Landfill
Disposal Facility
9900 Freeman Road
Kernersville NC 27284

ENS: 97-13909
MP: 134972
Rev / Task: 00 / 02
Sample Type: LEACHATE
Reported: 13-NOV-1997

Analyte	Sample Point: 134-T01 Sample Number: AS4059 Sampled: 15-OCT-1997	EML RL					Units
FIELD DATA:							
PH FIELD	6.70						PH UNITS
SPECIFIC CONDUCTANCE FIELD	2660						UMHOS/CM
WATER TEMPERATURE IN DEG. CELSIUS FIELD	17.4						DEGREES C
CHEMICAL METHODS & ROBOTICS:							
CHEMICAL OXYGEN DEMAND	2130	100.					MG/L
NITROGEN, NITRATE	0.099	0.050					MG/L
PH	6.35	0.05					PH UNITS
PHOSPHOROUS, TOTAL	1.00	0.20					MG/L
INORGANICS:							
ANTIMONY-TOTAL	35.8	6.00					UG/L
ARSENIC-TOTAL	28.1	10.0					UG/L
BARIUM-TOTAL	1030	500.					UG/L
BERYLLIUM-TOTAL	ND	2.00					UG/L
BIOCHEMICAL OXYGEN DEMAND	586	300.					MG/L
CADMIUM-TOTAL	5.8	1.00					UG/L
CHROMIUM-TOTAL	48.2	10.0					UG/L
COBALT-TOTAL	75.6	10.0					UG/L
COPPER-TOTAL	ND	200.					UG/L
LEAD-TOTAL	ND	10.0					UG/L
NICKEL-TOTAL	101	50.0					UG/L
SELENIUM-TOTAL	ND	20.0					UG/L
SILVER-TOTAL	ND	10.0					UG/L
SULFATE	30.5	6.0					MG/L
THALLIUM-TOTAL	27.4	2.00					UG/L
VANADIUM-TOTAL	ND	40.0					UG/L
ZINC-TOTAL	146	50.0					UG/L
VOLATILE ORGANICS:							
1,1,1,2-TETRACHLOROETHANE	ND	5					UG/L
1,1,1-TRICHLOROETHANE	ND	5					UG/L
1,1,2,2-TETRACHLOROETHANE	ND	8					UG/L
1,1,2-TRICHLOROETHANE	ND	5					UG/L
1,1-DICHLOROETHANE	6	5					UG/L
1,1-DICHLOROETHENE	ND	8					UG/L
1,2,3-TRICHLOROPROPANE	ND	15					UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1					UG/L
1,2-DIBROMOETHANE	ND	1					UG/L
1,2-DICHLOROBENZENE	ND	10.					UG/L
1,2-DICHLOROETHANE	ND	5					UG/L
1,2-DICHLOROPROPANE	ND	5					UG/L
1,4-DICHLOROBENZENE	ND	10.					UG/L
2-BUTANONE	2100	63					UG/L
2-HEXANONE	ND	23					UG/L
4-METHYL-2-PENTANONE	96	20.					UG/L
ACETONE	1300	130					UG/L
ACRYLONITRILE	ND	200.					UG/L

NA = Not Analyzed ND = Not Detected TBK = Trip Blank s = EML Subcontract Data

EVENT SUMMARY REPORT

Site: 134 - Piedmont Landfill
Disposal Facility
9900 Freeman Road
Kernersville NC 27284

ENS: 97-13909
MP: 134972
Rev / Task: 00 / 02
Sample Type: LEACHATE
Reported: 13-NOV-1997

Analyte	Sample Point: 134-T01 Sample Number: AS4059 Sampled: 15-OCT-1997	EML RL					Units
BENZENE	ND	5					UG/L
BROMOCHLOROMETHANE	ND	10.					UG/L
BROMODICHLOROMETHANE	ND	5					UG/L
BROMOFORM	ND	5					UG/L
BROMOMETHANE	ND	10.					UG/L
CARBON DISULFIDE	ND	5					UG/L
CARBON TETRACHLORIDE	ND	8					UG/L
CHLOROBENZENE	ND	5					UG/L
CHLOROETHANE	ND	10.					UG/L
CHLOROFORM	ND	5					UG/L
CHLOROMETHANE	ND	10.					UG/L
CIS-1,2-DICHLOROETHENE	ND	10.					UG/L
CIS-1,3-DICHLOROPROPENE	ND	5					UG/L
DIBROMOCHLOROMETHANE	ND	5					UG/L
DIBROMOMETHANE	ND	10.					UG/L
ETHYLBENZENE	6	5					UG/L
IODOMETHANE	ND	10.					UG/L
METHYLENE CHLORIDE	20.	8					UG/L
STYRENE	ND	5					UG/L
TETRACHLOROETHENE	ND	8					UG/L
TOLUENE	68	5					UG/L
TRANS-1,2-DICHLOROETHENE	ND	10.					UG/L
TRANS-1,3-DICHLOROPROPENE	ND	5					UG/L
TRANS-1,4-DICHLORO-2-BUTENE	ND	13					UG/L
TRICHLOROETHENE	ND	5					UG/L
TRICHLOROFLUOROMETHANE	ND	10.					UG/L
VINYL ACETATE	ND	18					UG/L
VINYL CHLORIDE	ND	10.					UG/L
XYLENE(TOTAL)	ND	15					UG/L

NA = Not Analyzed ND = Not Detected TBK = Trip Blank s = EML Subcontract Data

Subcontract To: _____

WMX Technology Center, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # [illegible]
Date Sealed 9 7 / 1 0 / 1 4 (YY / MM / DD)
Seal # [illegible]
By: _____

SITE/FACILITY # 1184 SITE NAME: Piedmont Landfill

Sample Point: C T 01 (Source Code)

T01

SAMPLE DATE: 97/10/15 (YY / MM / DD)

SAMPLE TIME: 14:40 (2400 HR.) MATRIX CODE: C

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:

Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River Stream Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt (G) Other (X) Specify _____

ENS # [illegible]

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
A64059-A ✓	01	P	H2SO4 4C	CRCODXXX01	Y (N)	EML	
A64059-B ✓	01	P	H2SO4 4C	CRTPXXXX02	Y (N)	EML	
A64059-C ✓	01	P	NONE 4C	CRNC3HYD01	Y (N)	EML	48 HR NIT
A64059-D ✓	01	P	NONE 4C	CRXPHXXX01	Y (N)	EML	
A64059-E ✓	01	P	HNO3	IN 15 METHODS	Y (N)	EML	
A64059-F ✓	01	P	NONE 4C	INICXXS04X	Y (N)	EML	
A64059-G ✓	01	P	NONE 4C	INBODXXX01	Y (N)	EML	BOD
A64059-H ✓✓	02	G	NONE 4C	VOGCEAN104	Y (N)	EML	
A64059-I ✓✓✓✓	04	G	HCL 4C	VO 02 METHODS	Y (N)	EML	
~~A64059-J~~	~~01~~	~~G~~	~~NONE 4C~~	~~VOGCEAN104~~	Y N	~~EML~~	~~TBK~~
~~A64059-K~~	~~01~~	~~G~~	~~HCL 4C~~	~~VO 02 METHODS~~	Y N	~~EML~~	~~TBK~~
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) EDWARD GIBSON Date: 10/15/97 Time: : (2400 HR.)
   Signature: [signature] Seal #: [illegible] Intact: [illegible]

2. I have received these materials in good condition from the above person.
   Name: M. McFerry Signature: [signature]
   Date: 10/15/97 Time: 08:00 (2400 HR.) Remarks: _____

3. I have received these materials in good condition from the above person.
   Name: _____ Signature: _____
   Date: / / Time: : (2400 HR.) Remarks: _____

4. AquaPak™/Sub Contr. # _____ Sealed By: M. McFerry (Print) Date: 10/15/97 Time: [illegible] : [illegible] (2400 HR)
   Signature: [signature] Seal #: 126773 Intact: Y

LAB USE ONLY
Opened By: (Signature) [signature] Date: 10/16/97 Time: 12:27 (2400 HR.)
AquaPak™/Sub. Contr. # 692 Temp.°C 6 Seal # 126773 Intact. Y
REGION

EML FT 1A 12/92

WMX - Technology Center, Inc.

FIELD INFORMATION FORM

Site # 134

Bottle Set: A5406 59

Sample Point: C T01
Source Code

PURG INFO

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)

PURG & SAMPLING EQUIP

Purging Equipment . . . . .Dedicated | Y | | N | (circle one) Sampling Equipment . . . . .Dedicated | Y | | N | (circle one)

Purging Device		A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device		B-Peristaltic Pump C-Bladder Pump	E-Venturi Pump F-Dipper/Bottle	H-Scoop/Shovel I-Piston Pump	X- SAMPLING OTHER (SPECIFY)
Purging Material		A-Teflon	~~C-Polypropylene~~	~~E-Polyethylene~~	X- PURGING OTHER (SPECIFY)
Sampling Material		B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging		A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling		B-Tygon C-Rope X- (SPECIFY)	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
Filtering Devices 0.45 μ:		A-In-line Disposable	B-Pressure	C-Vacuum	

EACHATE

FIELD MEASUREMENTS

Well Elevation		(ft/msl)	Land Surface Elevation		(ft/msl)
Depth to water from top of well casing		(ft)	Depth to water From land surface		(ft)
Groundwater Elevation		(ft/msl)	Groundwater Elevation		(ft/msl)
Well Depth		(ft)	Stickup		(ft)

	ph		spec cond	
1st	6.70	(STD)	2660	μm/cm at 25° C
2nd		(STD)		μm/cm at 25° C
3rd		(STD)		μm/cm at 25° C
4th		(STD)		μm/cm at 25° C

Sample Temp. 17.4 (° C)

(other parameter)	value	units

COMMENTS

Sample Appearance: CLOUDY (if applicable) Odor: STRONG Color: BROWN Turbidity: HIGH

Weather Conditions: Wind Speed — Direction — Precipitation Y/N Outlook CLOUDY, 60°F

Specific Comments:

SAMPLE TAKEN FROM LEACHATE TANK. SOME WAS HAD HAVE BUBBLES DUE TO SAMPLE FOAMING.

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

10/15/97 (Date) (Signature) Employer: WMI / PIEDMONT LF

EML FF-2A 6/97

REGION

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons
12/12/96	1	10691	N/A
	2	12301	N/A
	5,6	64632	N/A
	7	52498	N/A
	4	26201	N/A
	A	29839	N/A
	B	70690	N/A
	D	1370968	N/A
		Total:	N/A

SUMP NO.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
Total:	2,232,840

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
01/15/97	1	11965	1,274
	2	12811	510
	5,6	65152	520
	7	NR	
	4	195519	169,318
	A	23862	23,862
	B	63856	63,856
	D	1397380	26,412
		Total:	285,752

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
Total:	2,232,840

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
02/09/97	1	NR	
	2	NR	
	5,6	NR	
	7	NR	
	4	NR	
	A	NR	
	B	NR	
	D	1412702	15,322
		Total:	15,322

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
Total:	2,232,840

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*	
03/04/97	1	12423	458	From 1/15/97 reading
	2	13426	615	From 1/15/97 reading
	5,6	66070	918	From 1/15/97 reading
	7	0	0	
	4	NR		
	A	23822	23,822	
	B	82711	82,711	
	D	1431168	18,466	
		Total:	126,990	

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
Total:	2,232,840

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
04/14/97	1	12814	391
	2	13980	554
	5,6	66581	511
	7	NR	
	4	NR	
	A	15076	15,076
	B	67369	67,369
	D	1471530	40,362
		Total:	124,263

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
Total:	2,232,840

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
05/07/97	1	12815	1
	2	14295	315
	5,6	66581	0
	7	138	138
	4	13971	13,971
	A	NR	
	B	33318	33,318
	D	1497426	25,896
		Total:	73,639

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
Total:	2,232,840

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
06/11/97	1	13480	665
	2	14685	390
	5,6	66582	1
	7	NR	
	4	6428	6,428
	A	8959	8,959
	B	26314	26,314
	D	1530001	32,575
		Total:	75,332

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
Total:	2,232,840

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
07/15/97	1	13934	454
	2	15052	367
	5,6	66599	17
	7	NR	
	4	229268	229,268
	A	6872	6,872
	B	17639	17,639
	D	1566134	34,542
		Total:	289,159

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
Total:	2,232,840

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
08/12/97	1	14339	405
	2	15332	280
	5,6	67873	1,274
	7	9.3	9
	4	144.9	145
	A	8282	8,282
	B	11877	11,877
	D	1613230	47,096
	E	351608	351,608
		Total:	420,976

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
E	228,300
Total:	2,461,140

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
09/10/97	1	14341	2
	2	15648	316
	5,6	67873	0
	7	NR	
	4	514	514
	A	5520	5,520
	B	8742	8,742
	D	1637853	33,450
	E	414122	414,122
		Total:	462,666

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
E	228,300
Total:	2,461,140

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
10/08/97	1	14811	470
	2	15915	267
	5,6	68670	797
	7	NR	
	4	6	6
	A	4318	4,318
	B	7436	7,436
	D	1653175	15,322
	E	475987	475,987
		Total:	504,603

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
E	228,300
Total:	2,461,140

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
11/10/97	1	15153	342
	2	16232	317
	5,6	69642	972
	7	3	3
	4	51	51
	A	5110	5,110
	B	9050	9,050
	D	1675839	22,664
	E	536885	536,885
		Total:	575,394

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
E	228,300
Total:	2,461,140

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

PIEDMONT LANDFILL & RECYCLING CENTER

Leachate Collection and Removal System

MONTHLY LOG

Date	Sump Number	Meter Reading	Meter Reading Difference - Volume in Gallons*
12/12/97	1	15488	335
	2	16512	280
	5,6	70335	693
	7	NR	
	4	90	90
	A	6360	6,360
	B	14235	14,235
	D	1691115	15,276
	E	627161	627,161
		Total:	664,430

SUMP No.	Area Draining to Sump, Sq. Ft.
1	174,240
2	130,680
5,6	435,600
4	261,360
A	273,000
B	261,000
7	304,920
D	392,040
E	228,300
Total:	2,461,140

* Some meter readings are actual volumes, i.e. meters are reset to zero every month

NR=No Reading

PIEDMONT LANDFILL & RECYCLING CENTER
Leachate Collection and Removal System

Month	Leachate Removed, gallons
Jan-97	285,752
Feb-97	15,322
Mar-97	126,990
Apr-97	124,263
May-97	73,639
Jun-97	75,332
Jul-97	289,159
Aug-97	420,976
Sep-97	462,666
Oct-97	504,603
Nov-97	575,394
Dec-97	664,430
TOTAL:	3,618,526

PIEDMONT LANDFILL & RECYCLING CENTER

Secondary Leachate Collection and Removal System
Monthly Accumulation Rate, gallons/acre/day

SUMP 7 (Only)

Area Subject to Leachate Collection, ac: 7

Date Pumped	Gallons Pumped	Days between Pumpings	Accumulation Rate gal/ac/day**
12/13/96	n/a	n/a	n/a
01/15/97	0	33	0.00
01/31/97	0	16	0.00
02/28/97	0	28	0.00
03/31/97	0	31	0.00
04/30/97	0	30	0.00
06/11/97	0	42	0.00
08/12/97	0	62	0.00
09/10/97	0	29	0.00
10/08/97	0	28	0.00
11/10/97	0	33	0.00
12/12/97	0	32	0.00

$$\text{Accumulation Rate} \quad \frac{\text{Gallons Pumped}}{(\text{Days Between Pumpings})^{*}\ (\text{Acres Subject to Collection})}$$

** Must not exceed 20 gal/ac/day, as per Solid Waste permit

PIEDMONT LANDFILL & RECYCLING CENTER

Secondary Leachate Collection and Removal System
Monthly Accumulation Rate, gallons/acre/day

SUMP 4 (Only)

Area Subject to Leachate Collection, acres: 6

Date Pumped	Gallons Pumped	Days between Pumpings	Accumulation Rate gal/ac/day**
12/13/96	n/a	n/a	n/a
01/15/97	0	33	0.00
01/31/97	0	16	0.00
02/28/97	0	28	0.00
03/31/97	0	31	0.00
04/30/97	0	30	0.00
06/11/97	0	42	0.00
08/12/97	0	62	0.00
09/10/97	0	29	0.00
10/08/97	0	28	0.00
11/10/97	0	33	0.00
12/12/97	0	32	0.00

$$\text{Accumulation Rate} = \frac{\text{Gallons Pumped}}{\text{(Days Between Pumpings)* (Acres Subject to Collection)}}$$

** Must not exceed 20 gal/ac/day, as per Solid Waste permit

PIEDMONT LANDFILL & RECYCLING CENTER

Secondary Leachate Collection and Removal System
Monthly Accumulation Rate, gallons/acre/day

SUMP 5,6 (Only)

Area Subject to Leachate Collection, acres: 10

Date Pumped	Gallons Pumped	Days between Pumpings	Accumulation Rate gal/ac/day**
12/13/96	n/a	n/a	n/a
01/15/97	0	33	0.000
02/28/97	0	44	0.000
03/31/97	0	31	0.000
04/30/97	0	30	0.000
06/11/97	9	42	0.021
08/12/97	9	62	0.015
09/10/97	8	29	0.028
10/08/97	8	28	0.029
11/10/97	8.5	33	0.026
12/12/97	6	32	0.019

$$\text{Accumulation Rate} = \frac{\text{Gallons Pumped}}{\text{(Days Between Pumpings)* (Acres Subject to Collection)}}$$

** Must not exceed 20 gal/ac/day, as per Solid Waste permit