

## EXHIBIT 8

### LEACHATE SYSTEMS

The Pigeon Point Landfill has a system of leachate collection pipes that are located at the base of the waste mass on the interior and the perimeter. Leachate drains from the perforated collection pipes into one of the four (4) pump stations located adjacent to the landfill. The pump stations pump collected leachate to the DRP pump station. This pump station also collects wastewater from the Delaware Recycling Center complex of buildings. The combined flow is then pumped into the New Castle County sewer system.

Drawings showing the leachate collection system for the Pigeon Point Landfill are included in **EXHIBIT 12**. A copy of Wastewater Discharge Permit WDP 85-060, Revision 4 from New Castle County is included as **Attachment 1** in this EXHIBIT.

The maintenance, operation, and inspection of the leachate system are currently performed by DSWA. On a regular basis, DSWA employees and/or contractors inspect the condition and operation of the pump stations and perform maintenance and repairs when required. Inspections of the side slopes and toe of the landfill are conducted regularly to locate any seeps for corrective actions. In some cases a new branch of leachate collection piping has been added to drain leachate from seep areas to existing leachate manholes and pump stations.

If at some time in the future, the City of Wilmington and/or The Diamond State Port Corporation takes control of the landfill and makes use of the site, they will then be responsible for the leachate system.

# **EXHIBIT 8**

## **Attachment 1**

**WASTEWATER DISCHARGE  
PERMIT WDP 85-060, REVISION 4  
FROM NEW CASTLE COUNTY**

CHRISTOPHER A. COONS  
COUNTY EXECUTIVE

RFW  
RICHARD T. PRZYWARA  
GENERAL MANAGER



DEPARTMENT OF SPECIAL SERVICES

March 1, 2006

RECEIVED

MAR 0 9 2006

CHERRY ISLAND LANDFILL

RECEIVED

MAR 1 4 2006

DSWA

SCANNED

Robin S. Roddy P.E.  
1128 S. Bradford Street  
P.O. Box 455,  
Dover, DE 19903-0455

RE: Wastewater Discharge Permit WDP 85-060, Revision 4  
Delaware Solid Waste Authority

Dear Ms. Roddy:

In accordance with the recently modified provisions of the New Castle County Code, Division 38.02.700, entitled "Regulation of Non-domestic Wastewater Discharges into the Public Sewer System", the attached amended permit is hereby issued to Delaware Solid Waste Authority, Dover, Delaware.

The permit is effective the date of this letter and supersedes all previous permits issued to this facility. Pursuant to Division 38.02.700 of the New Castle County Code, the permit may be revised as limitations or requirements are modified or changed. Monitoring reports shall be submitted by July 31 and January 31 for the previous six-month period.

Should you have any questions or require further information on the above, please contact David Bowie 395-5728.

Sincerely,

*Michael D. Harris*

Michael D. Harris  
Environmental Compliance Manager

Encl.

cc: T. Surles/J. Husband, NCC  
Matt Miller, City of Wilmington, Encl.  
David Bowie, NCC, File

file:c:\permit#185-060\permitr 06.doc

Permit Number: 85-060  
Revision Number: 4

NEW CASTLE COUNTY  
DEPARTMENT OF SPECIAL SERVICES  
187-A Old Churchman's Road  
New Castle, Delaware 19720

## WASTEWATER DISCHARGE PERMIT

In accordance with the provisions of the General Pretreatment Regulations at 40 CFR Part 403, and pursuant to New Castle County Code, Division 38.02.700 entitled "Regulation of Non-domestic Wastewater Discharges into the Public Sewer System," as amended December 21, 2004 and any applicable Federal or State law or regulation:

Delaware Solid Waste Authority  
1128 S. Bradford St., P. O. Box 455  
Dover, Delaware 19903-0455

is authorized to discharge wastewater to the New Castle County Sewer System from the facility located at:

Northern Solid Waste Facility-1  
1101 Lambson Lane  
New Castle, Delaware 19720

subject to the permit conditions established herein.

Effective Date: As amended March 1, 2006

Expiration Date: September 6, 2009

Date: 3/1/06

Signed: Michael D. Harris  
Environmental Compliance Manager

**PERMIT CONDITIONS**

A. General.

1. The named permit holder shall be expressly subject to all provisions of New Castle County Code, Division 38.02.700 and all other regulations, user charges, and fees established by the County.

2. This Wastewater Discharge Permit is issued in the name of the permit holder and shall not be reassigned, transferred or sold to a new owner, new user, different premises, or a new or changed operation.

3. The permit holder shall report to New Castle County any changes (permanent or temporary) to the premises or operations that significantly change the quality or quantity of the wastewater discharge described in the Wastewater Discharge Permit Application submitted by the permit holder, or deviate from the terms or conditions under which this permit is granted.

4. The permit holder may be held liable for any actual damages and/or extraordinary expenses incurred by the Publicly Owned Treatment Works (POTW) caused in full or in part by the permit holder as determined from the investigation and findings of the Department of Special Services. The Department may seek to recover reasonable attorney's fees, court costs, monitoring costs, and other expenses associated with cost recovery and other enforcement activities.

5. This permit is subject to revision to reflect any changes to the County code or any applicable categorical standards as and when they are promulgated by the USEPA.

6. The permit holder is subject to all enforcement actions, to include penalties established in New Castle County Code, Division 38.02.700, for violating permit conditions.

7. All reports and correspondence shall be submitted to the following address:

Environmental Compliance Manager  
Department of Special Services  
Engineering & Environmental Services Division  
187 -A Old Churchman's Road  
New Castle, Delaware 19720

B. Effluent Limitations.

1. Permissible Concentrations. The discharge from the designated location shall be limited to the effluent quality limitations as defined in New Castle County Code, Division 38.02.700 except for the following:

<u>Effluent Constituent</u>	<u>Maximum Permissible Loading (lbs/day)</u>	
	<u>30 Day Average</u>	<u>Maximum Daily</u>
As	0.3002	0.4504
Cd	0.0100	0.0150
Cr	0.1700	0.2500
Cu	0.2000	0.3052
Cn	N/A	1.6350
Pb	0.1600	0.2450
Hg	0.0190	0.0285
Mo	N/A	N/A
Ni	3.34	5.004
Se	2.17	3.25
Zn	0.58	0.878
TSS	1668	2510
BOD5	1668	2510
Ammonia**	600	900

<u>Effluent Constituent</u>	<u>Maximum Permissible Concentration (mg/l)</u>	
	<u>30 Day Average</u>	<u>Maximum Daily</u>
Total Toxic Organics (TTO*)	--	10.0 mg/L

\*TTO - Total Toxic Organics as defined at 40 CFR 433. 11 (e)

\*\*Ammonia loading is granted through a permit variance

2. Categorical Limitations. Discharge is subject to the categorical pretreatment standards for N/A as established under 40 CFR Chapter I, Subpart N. These standards shall be in addition to the general prohibitions of the New Castle County Code, Division 38.02.700, and in cases where the same constituent is addressed, the more stringent limitation will apply.

3. Rate of Discharge.

a. The daily average discharge shall mean the total discharge in gallons during a six month monitoring period divided by the number of days in the period in which production was occurring or the commercial facility was operating. The daily average discharge permitted at the facility shall not exceed:

400,000 GPD

b. The maximum instantaneous discharged flow rate shall not exceed:

N/A

c. A meter to measure the wastewater discharge shall be installed at the following location:

A Flow Meter is in place and in use at the facility effluent pump station

Metering devices pertinent to the discharge(s) shall be maintained in good working order and calibrated at least annually.

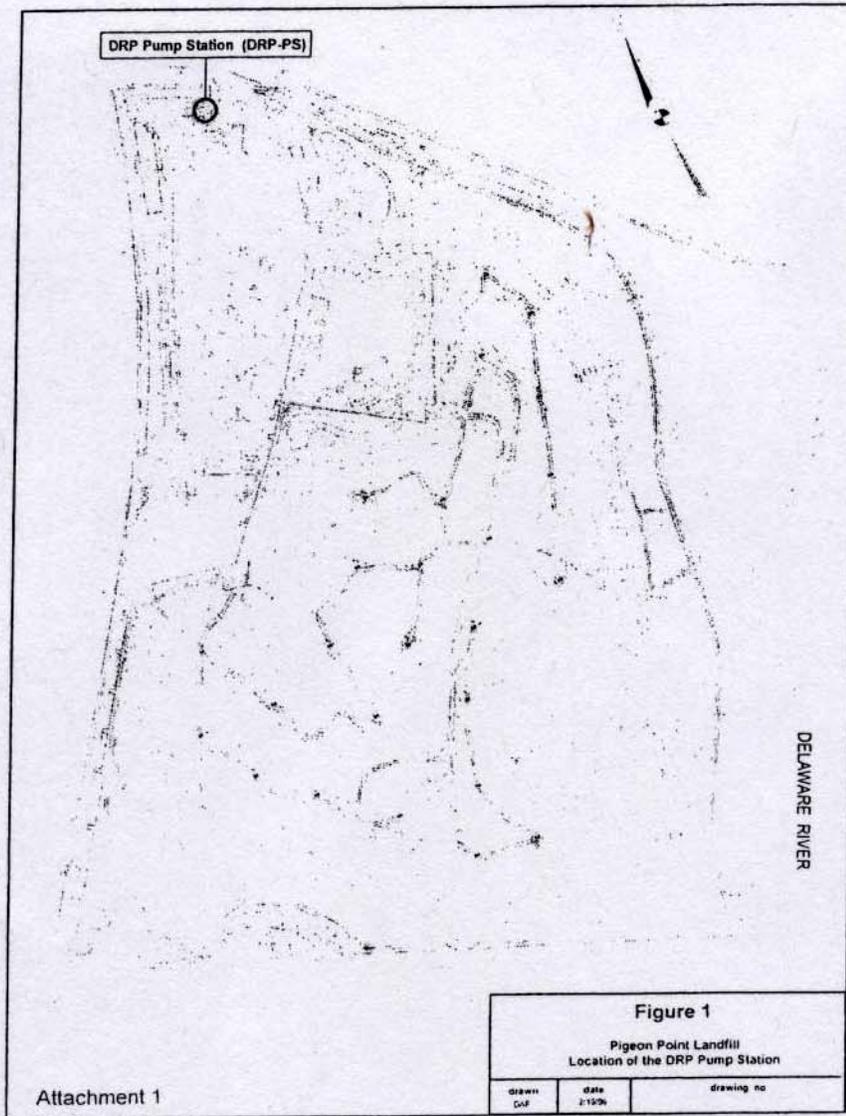
C. Monitoring, Sampling, Inspections, Reporting, and Records Retention.

1. Monitoring. The permitted discharge shall be monitored by the permit holder in compliance with the following schedule:

<u>Effluent Constituent</u>	<u>Frequency</u>	<u>Sample Type</u>
pH	1/ Month	Grab
BOD5	1/ Month	24-hr Composite
TSS	1/ Month	24-hr Composite
NH3-N	1/ Month	24-hr Composite
As, Cd, CN, Cr, Cu, Hg	1/ 6 Months	24 -hr Composite
Pb, Mo, Ni, Se, Zn,	1/ 6 Months	24- hr Composite
TTO ( Non Purgeables)	1/6 Months	24-hr Composite
TTO ( Purgeables)	1/6 Months	Composite of 4 grabs

2. Sampling.

- a. Samples taken in compliance with the monitoring requirements specified above shall be collected at the following location  
N S W F-1 Pumping Station.



- b. In accordance with New Castle County Code, Division 38.02.700, the permit holder is required to install a sampling and inspection manhole at the following location:

N S W A -1 Pumping Station wet well shall be used

3. Inspections. Duly authorized employees of New Castle County, bearing proper credentials and identification, shall be permitted to enter all premises in compliance with New Castle County Code, Division 38.02.700, for the purpose of inspection of processes, records, and the like.

4. Periodic Discharge Reports and Progress Reports on Compliance Schedule. A report containing the results of the monitoring program and progress reports on compliance (if any) shall be filed with the New Castle County Department of Special Services by January 31 and July 31 of each year for the previous six-month period. The results of all self-monitoring, including the results of monitoring done more frequently than required, shall be submitted. Reports shall be submitted in the attached format (Attachments 1 of 3, 2 of 3 and 3 of 3 of this permit).

The report shall include at a minimum the following:

Nature and concentration of regulated pollutants, average and maximum daily flow rates, methods of sampling and analysis, sample site, date of sample and flow rate at time of sampling, certification of meter calibration, and a certification that the methods used conform to those approved by the U.S. E.P.A. Reports shall be signed in compliance with the signatory requirements in 40 CFR 122.22 (l). If analysis results indicate a particular pollutant is not detected, the detection limit shall be reported.

5. Records Retention. All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed, including sample time, sampler name, date of sample analysis, analysts name calibration and maintenance of instrumentation, and continuous monitoring charts shall be retained for three (3) years. This period shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or control standards applicable to the permittee, or as requested by the Department.

D. Notice Requirements.

1. Noncompliance Notification. If the permitted discharge does not comply with any effluent limitations specified in this permit or in the New Castle County Code, the permittee shall inform the Department via telephone at 395-5728 or the County Dispatcher at 395-5700 within 24 hours of becoming aware of the occurrence, and follow up with written notification within 5 days detailing the cause of the occurrence, the steps taken to correct the occurrence and prevent future events. The permittee shall also repeat sampling and analysis and submit the results within 30 days of becoming aware of the violation.

2. RCRA Notification. The permitted facility may be subject to hazardous waste requirements under the Resource Conservation and Recovery Act, Subtitles C & D. The State of Delaware Department of Natural Resources and Environmental Control, Division of Air and Waste Management, 89 Kings Highway, PO Box 1401, Dover Delaware 19903 regulates hazardous waste in the state and must be contacted to determine your obligations, if any, under this Act. The permitted facility shall also notify the County and DNREC in the event of discharge of hazardous waste to the sewer system and the POTW, in accordance with 40 CFR 403.12 (p) (1).

3. Notice of Slug Loading. In accordance with 40 CFR Part 403, Section 403.12(f), the discharger shall immediately notify the Department of any slug loading of any pollutant (including oxygen demanding pollutants) released to the treatment system at a flow rate or concentration likely to cause operational problems to the sewer system and at the POTW. (Call 395-5728 during office hours, 395-5700 at other times)

E. Special Conditions.

1. This Wastewater Discharge Permit supersedes any other approval and/or permit for wastewater discharge issued previous to the effective date of this permit.

2. All analyses conducted in accordance with Section C.1. of this permit shall conform to 40 CFR 136 analytical methods.

3. All sampling specified in section C.1. of this permit shall be performed during hours which production is occurring or the commercial facility is operating.





**Periodic Self-Monitoring Report**

Permit Number: WDP-85-060  
 Permit Revision Number: 4  
 Attachment 3 of 3

Reporting Period: January - June / July - December

Industry: Delaware Solid Waste Authority

**Part II - Flow Rates**

	Max	Avg		Max (GPD)	Avg (GPD)
Permitted Flow (GPD)	N/A	400,000	Reported Flow		

**Part III - Methods**

**A. Sampling Method:**

All Samples are flow / time (circle one) proportioned composites except for purgeable parameters which are laboratory composites of four (4) grab samples, collected over the period of the discharge. Variances from the method are as below (Indicate sample date, parameter, and reason).

**B. Methods of Analysis:**

All analytical methods conform to those approved by the U.S. EPA except:

**Part IV- Certification**

A. Results indicate that the wastewater discharge standards are being met on a consistent basis:  Yes  No  
 If 'No', explain on a separate sheet what steps are being taken to achieve consistent compliance.

B. The discharge flow meter has been calibrated within the past year:  Yes  No

Date of last calibration: \_\_\_\_\_

C. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

\_\_\_\_\_  
 Authorized Representative

\_\_\_\_\_  
 Name