

Let's protect our earth



State of New Jersey  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER RESOURCES  
CN 029  
TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E.  
DIRECTOR

DIRK C. HOFMAN, P.E.  
DEPUTY DIRECTOR

CERTIFIED MAIL  
RETURNED RECEIPT REQUESTED

Mr. Vincent Dewar, Acting Director  
Directorate of Engineering & Housing  
Department of the Army  
Headquarters US Army Communications - Electronic Command  
and Fort Monmouth  
Fort Monmouth, NJ 07703-500

JUL 21 1987

Re: NJPDES Permit No. NJ0057274  
Effective Date: July 15, 1985

Dear Mr. Dewar:

Enclosed is the final NJPDES/Ground Water Discharge Permit to discharge pollutants to the ground waters of the State, issued in accordance with the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-1 et seq. Violation of any condition of this permit may subject you to significant penalties.

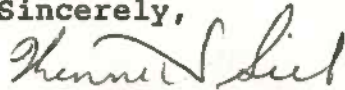
Within 30 calendar days following your receipt of this permit, under N.J.A.C. 7:14A-8.6 you may submit a request to the Administrator for an adjudicatory hearing to reconsider or contest the conditions of this permit. Regulations regarding the format and requirements for requesting an adjudicatory hearing may be found in N.J.A.C. 7:14A-8.9 through 8.13. The request should be made to:

Administrator  
Water Quality Management Element  
Division of Water Resources  
CN-029  
Trenton, New Jersey 08625

Application for renewal of this permit must be submitted at least 180 days prior to expiration of this permit pursuant to N.J.A.C. 7:14A-2.1(f)5.

If you have any questions on this action, please contact Dave Kaplan of the Bureau of Ground Water Quality Management at (609) 292-8427.

Sincerely,



Ken Siet, Chief  
Ground Water Quality Control Section  
Bureau of Ground Water Quality Management

WQM32

Monitoring Wells

NJPDES No. - 0057274

Well Permit No.

M.W. #1 49-00055-1

M.W. #2 49-00056-0

M.W. #3 49-00057-8

M.W. #4 49-00058-6



STATE OF NEW JERSEY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CN 402  
Trenton, N.J. 08625



PERMIT

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to the further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit.

Permit No. NJ# 0057274	Issuance Date 6/10/85	Effective Date 7/15/85	Expiration Date 7/14/88
Name and Address of Applicant Department of the Army Directorate of Engineering and Housing Fort Monmouth, NJ 07703	Location of Activity/Facility Fort Monmouth Sanitary Landfill Ft. Monmouth, NJ 07703	Name and Address of Owner SAME AS APPLICANT	
Issuing Division WATER RESOURCES	Type of Permit NJPDES Permit for Discharge to Ground Water	Statute(s) N.J.S.A. 58:10A-1 et seq. N.J.A.C. 7:14A-1 et seq.	Application No. NA

This permit requires  
The U.S. Army to monitor the ground water and surface water at five landfills in Fort Monmouth by operating and maintaining four (4) ground water monitoring wells and ten (10) surface water sampling points. Sampling will be done on a semi-annual basis according to the specific and general conditions of this NJPDES permit.

This is a major modification of an existing NJPDES permit. Documents attached hereto shall become part of this permit.

Approved by the Department of Environmental Protection  
BY AUTHORITY OF:  
GEORGE G. MCCANN, P.E., DIRECTOR  
DIVISION OF WATER RESOURCES

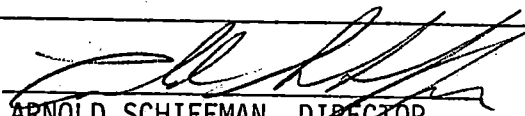
  
ARNOLD SCHIFFMAN, DIRECTOR  
WATER QUALITY MANAGEMENT ELEMENT  
DATE

TABLE 1: GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS

Fort Monmouth

The permittee shall sample a total of four (4) ground water monitoring wells and ten (10) surface water locations according to the schedule below. All ground water elevations must be determined prior to pumping and sampling the wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and the Department's Field Procedures Manual for Water Data Acquisition. The permittee shall sample for all parameters listed below. The first round of samples taken shall include all the parameters listed below for the January sampling event and shall be the beginning of the sampling schedule.

<u>PARAMETER</u>	<u>LIMITATION</u>	<u>SAMPLING MONTH</u>	<u>SAMPLE TYPE</u>	<u>REPORTING MONTH</u>
Elevation of top of monitor well casing with cap removed (to be determined once but reported as indicated)		APRIL OCTOBER	N/A	MAY NOVEMBER
Depth to Water Table from top of casing with cap removed prior to sampling		APRIL OCTOBER	N/A	MAY NOVEMBER
Depth to Water Table from original ground level prior to sampling		APRIL OCTOBER	N/A	MAY NOVEMBER
Ammonia-Nitrogen <i>Dissolved NH<sub>3</sub>-NH<sub>4</sub> as N</i>	0.5 ppm	APRIL OCTOBER	grab	MAY NOVEMBER
Arsenic & Compounds <i>Dissolved</i>	0.05 ppm	OCTOBER	grab	NOVEMBER
Barium <i>Dissolved</i>	1.0 ppm	OCTOBER	grab	NOVEMBER
Biochemical Oxygen Demand (BOD) <i>5 Day</i>	ppm	APRIL OCTOBER	grab	MAY NOVEMBER
Cadmium <i>Dissolved</i>	0.01 ppm	OCTOBER	grab	NOVEMBER
Chemical Oxygen Demand (COD) <i>Dissolved</i>	ppm	APRIL OCTOBER	grab	MAY NOVEMBER
Chloride <i>Dissolved</i>	250 ppm	APRIL OCTOBER	grab	MAY NOVEMBER
Chromium (Hex.) & Compounds <i>Dissolved</i>	0.05 ppm	OCTOBER	grab	NOVEMBER
Coliform Bacteria	1*	OCTOBER	grab	NOVEMBER



Color	None Notice- able		APRIL	OCTOBER	grab	MAY	NOVEMBER
Copper <i>Dissolved</i>	1.0	ppm	APRIL	OCTOBER	grab	MAY	NOVEMBER
Cyanides (total)	0.2	ppm		OCTOBER	grab		NOVEMBER
Fluoride <i>Dissolved</i>	2.0	ppm		OCTOBER	grab		NOVEMBER
Foaming Agents	0.5	ppm	APRIL	OCTOBER	grab	MAY	NOVEMBER
Hardness, Total <i>CaCO<sub>3</sub></i>		ppm		OCTOBER	grab		NOVEMBER
Iron <i>Dissolved</i>	0.3	ppm	APRIL	OCTOBER	grab		NOVEMBER
Lead & Compounds	0.05	ppm	APRIL	OCTOBER	grab		NOVEMBER
Manganese <i>Dissolved</i>	0.05	ppm		OCTOBER	grab		NOVEMBER
Mercury & Compounds <i>Dissolved</i>	0.002	ppm		OCTOBER	grab		NOVEMBER
Nitrate Nitrogen <i>Dissolved</i>	10.0	ppm	APRIL	OCTOBER	grab	MAY	NOVEMBER
pH	5-9	SU	APRIL	OCTOBER	grab	MAY	NOVEMBER
Phenols	0.3	ppm	APRIL	OCTOBER	grab	MAY	NOVEMBER
Selenium & Compounds	0.01	ppm		OCTOBER	grab		NOVEMBER
Silver & Compounds <i>Dissolved</i>	0.05	ppm		OCTOBER	grab		NOVEMBER
Sodium <i>Dissolved</i>	50	ppm	APRIL	OCTOBER	grab	MAY	NOVEMBER
Sulfate <i>Dissolved (SO<sub>4</sub>)</i>	250	ppm	APRIL	OCTOBER	grab	MAY	NOVEMBER
Total Dissolved Solids (TDS)	500	ppm	APRIL	OCTOBER	grab	MAY	NOVEMBER
Total Organic Carbon (TOC)		ppm	APRIL	OCTOBER	grab	MAY	NOVEMBER
Total Volatile Organics by GC/MS	50*	ppb		OCTOBER	grab		NOVEMBER
Turbidity		ppb		OCTOBER	grab		NOVEMBER
Zinc & Compounds <i>Dissolved</i>	5	ppm	APRIL	OCTOBER	grab	MAY	NOVEMBER

#### NOTES

- 1\* A) By membrane filtration, not to exceed four per 100 ml in more than one sample when less than 20 are examined per month, or B) by fermentation tube, with a standard 10 ml portion, not to be present in three or more portions in more than one sample when less than 20 are examined per month, or

C) prevailing criteria adopted pursuant to the Federal Safe Drinking Water Act (PL 93-523).

2. GC/MS scan for volatile organic compounds identified in Appendix B of the NJPDES regulations with a method limit of detection of 10 ppb or better for each substance. The concentration for specific volatile organic chemicals shall be the 10-6 Cancer Risk for those volatile organic chemicals listed in Appendix F of the NJPDES regulations which have a value for the 10-6 Cancer Risk limit. In no case shall the total concentration for all volatile organic chemicals exceed 50 ppb.

The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this Permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the Permit sampling requirements and may place the Permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10. It shall be solely the Permittee's responsibility to maintain an adequate supply of the required report forms.

Satisfactory ground water monitoring wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

A Ground Water Monitoring Well Certification (Forms A and B) shall be completed for each existing and proposed monitoring well. Information for each well must be shown on a separate form. For an existing well, if the information required on the Ground Water Monitoring Well Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this Permit, the Department reserves the right to require a replacement well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample at any time of the year specified by the Permit. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 292-0580.