

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL QUALITY JOHN FITCH PLAZA, CN027, TRENTON, N.J. 08625 Solid Waste Administration

JACK STANTON DIRECTOR

January 12, 1981

Rita Klimkowski Board of Health, Morris County Township of Chester Box 428 Chester, NJ 07930

Dear Mrs. Klimkowski:

This letter is in response to your letter of December 1, 1980. I hope the following information is what you require.

Water Analysis

The Chester Hills landfill has five monitor wells which are tested quarterly for the following parameters: BOD₅, COD, Chloride, Iron, Phenols, Total dissolved solids and hardness. In addition to these parameters, once a year an expanded analysis is done including tests for some heavy metals. The most recent expanded analyses that we have received for 1979 and 1980 for mercury, lead and cadmium are shown below:

9/80	Well #1	Well #2	Well #3	Well #4	Well #5
Cadmium Lead Mercury	.01	.01 .05 NOT TESTED	.01 .05	.01	.01
8/79	Well #1	Well #2	Well #3	Well #4	Well #5
Cadmium Lead	.11	.01 .01 NOT TESTED	.01	.01	.01
5/79	Well #1	Well #2	Well #3	Well #4	Well #5
Cadmium Lead Mercury	.13	.01 .05 NOT TESTED	.22 .06	.01	.01 .05

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Monitor Well Specifications

Three of the five monitor wells at the Chester Hills landfill were installed a long while ago and it is difficult to give you accurate information concerning their specifications. Well #4 and #5 were installed at a later time and more information is known about these. The following is a summary of specs for the five wells.

	LOCATION	DEPTH	GEOLOGIC FORM.	CASING
Well #1	At LF garage	(?) possibly 100-200 ft.	Gneissic bedrock	steel
Well #2	On landfill property at crest of hill near access road	(?) possibly 100-200 ft. or deeper	Gneissic bedrock	steel
Well #3	Filiberto House on Parker Road	(?) possibly 100-200 ft. or deeper	Gneissic bedrock	steel
Well #4	On NE side of power lines (State Permit #25-19543)	TD 150', depth of casing 100' 6'', W.L. 30'	Gneissic bedrock 1st 100' rotten rock	steel
Well #5	Located near powerline on south side of landfill (Permit #25-19544) Shallow well	TD 30', Screen set 20-30' Gravel packed & grouted, water level 10'	In glacial drift; soils consists of gravelly or stony loam	P.V.C.

Future Plans and Investigations

Chester Hills is one of over 200 landfills which preexisted the statute enpowering the Department of Environmental Protection to regulate landfill operations in New Jersey. Regulations governing the methods of landfill operations were revised in 1974, and several smaller revisions have been made in the rules since that time. The Department of Environmental Protection is concerned that these pre-existing landfills may be presenting a danger of contamination to ground and surface waters. We are preparing to conduct surface water sampling in the vicinity of Chester Hills landfill in the near future in cooperation with the Upper Raritan Watershed Association. If this sampling discloses a pollution problem, the Department of Environmental Protection will be in a position to require that the situation be remedied. If pollution is found emanating from the site, additional monitor wells would be required.

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If and when the landfill expands further to the west, more monitoring wells will be required to be installed and testing procedures will be implemented. I hope the information has answered your questions. If not, please do not hesitate to contact us.

Very truly yours,

Walter Burshtin, P.E., P.P. Chief, Engineering & Registration Solid Waste Administration

WB:DT:gd

HEAVY METAL ANALYSIS OF PARKER ROAD AND SCHOOLHOUSE LANE

Name	Block	Lot		Mercury	Lead
Smith, Parker Rd.	16	36		0.0009	۷0.04
Jones, Parker Rd.	17	19		.0007	40.04
Tucker, Parker Rd.	16	35		.0014	0.04
Cole, Parker Rd.	16	26		0007	<0.04
Bullard, Parker Rd.	16	31		.0003	<0.04
McNamara, Parker Rd.	16	42	<	.0001	<0.04
Compton, Parker Rd.	16	43	4	.0001	<0.04
Cavazzas, Parker Rd.	17	5		0.0001	<0.04
York, Parker Rd.	17	20		0.0002	<0.04
Steinfield, Parker Rd	.17	25	く	0.0001	<0.04
Whitehead, Parker Rd.	16	37		0.0001	<0.04
Duryea, Parker Rd. Township Hall,	16	11		0.0002	<0.04
Parker Rd.	16	34	4	0.0001	<0.04
Lieberwith, Parker Rd		38	_	0.0004	<0.04
Hobbie Heat,				0.0004	\0.04
Parker Road	17	4		0.0001	<0.04
Beck, Parker Rd.	17	15		0.0001	<0.04
Price, Parker/School-					
house	17	21		0.0004	0.04
Pierson, Schoolhouse	17	226		0.0001	<0.04
Hoffman, Schoolhouse	17	24 .		0.0001	<0.04
Knutsen, Schoolhouse	17	43	4	0.0001	<0.04
Tingue, Parker	17	1		0.0001	<0.04
Pruiksma, School-					0.0.
house	17	22B		0.0002	0.04
Agee, Schoolhouse	17	22D	e.	0.0001	40.04.
Giersch, Parker	17	28		0.0001	<0.04
Schroeder, School-		•	-		(000.
house	17	44	<	0.0001	<0.04
Perry, Schoolhouse	17	22A		0.0002	<0.04
	-	-		(± 0.0001)	(± 0.001)
		Standard	d	(0.0020)	(0.05)

Teste taken by Clester Township recently of private homeowners'wells. The residents line near the landfill.

2-10-81

MEDIC LABORATORY OF NORTHWEST NEW JERSEY, INC. (Certified Water Laboratory No. 35) 27035

100 High St., P.O. Box 428

Hackettstown, N.J. 07840

Vincent D. Coughlin, Director

Phones: 1.ah.' 852-3023 Billing Office—852-3054		MON.TUESWEDFRI, 8:30 to 4:30 SAT, 8:30 to 3:00 CLOSED THURS.
WATER	ANALYSES	
Name Washington Twsp. Health Dept.	Date	Nov25,_1980
Address Long Valley, N.J.		
Date of Collection 11/21/80	Time of Collection	
Sample Collected by MLC	Date & Time Submitted	<u> 11/21 – pm</u>
BACTERIOLOGICAL.	Total No. of Coliform Organisms/100ml	Total No. of Fecal Coliform Organisms/100ml
Source of Supply		
1. #14698 - Bostick - pond	3200	0
RFMARKS: (Complied, Did not comply) with bacteriological standards for a safe water supply at the time of collection.	or	graduation for the constraints and the state of the constraints of the
CHEMICAL	-	
Source of Supply same		
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Hardnessppmppmppm REMARKS:	ppm	linceni (1)
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MON. TUES. WED. FRI. 8:30 to 4:30

Hackettstown, . .. 07840

Vincent D. Coughlin, Director

Phones: Lab.—852-3023 Billing Office—852-3054 MON. TUES. WED. FRI, 8:30 to 4:30 SAT. 8:30 to 3:00 CLOSED THURS.

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Sample Collected by MLC			Date & Time Submitted		11/21 -	- pm
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Iron <u>0.15</u> ppm						
Hardnessppm					<i>ب</i> د	. /
REMARKS:				· //	encent (! Of.
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