

92-10

CP&L

Wake Co.

Carolina Power & Light Company

Shearon Harris Energy & Environmental Center
Route 1, Box 327
New Hill, North Carolina 27562



AUG 03 1989

Serial No.: ESS-89-512

Carmen Johnson
Fac/Permit Co ID # 92-10
Date 9/25/12
Doc ID#

Mr. Michael L. Babuin, Hydrogeologist
Solid Waste Branch
Division of Health Services
P. O. Box 2091
Raleigh, N.C. 27602-2091

RE: Shearon Harris Nuclear Power Plant Monitoring Well Data

Dear Mr. Babuin:

In accordance with Landfill Permit No. 92-10 for the Shearon Harris Nuclear Power Plant sanitary landfill, enclosed please find the results of the annual well monitoring data for 1989. The sampling was performed on May 10, 1989. Wells #1, #2, and #3 are located near Landfill Area 3, which is the only active area. Wells #4 and #5 are near Landfill Area 2, which is not yet developed. They were sampled to provide background data.

If you have any questions or comments concerning this matter, please contact J. M. McDowell at (919) 546-6920.

Yours very truly,

George J. Oliver

George J. Oliver, Ph.D.
Manager
Environmental Services

TLP/ekb (87-3TLP)

Enclosure

92-10

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1989

Enclosure to ESS-89-512

SHEARON HARRIS NUCLEAR POWER PLANT

Sanitary Landfill Groundwater Monitoring

May 1989

O.K.

Water Analysis

Parameter (Units)	Well 1	Well 2	Well 3	Well 4	Well 5
pH (units)	8.0	6.5	7.9	7.9	7.8
Chloride (mg/l)	24.	7.0	20.	9.4	8.5
Specific Conductance (umho/cm)	447.	92.0	626.	426.	486.
Total Organic Carbon (mg/l)	6.5	3.0	7.0	3.0	2.8
Biochemical Oxygen Demand (mg/l)	<10	<10	47.	<10	<10
Chemical Oxygen Demand (mg/l)	<20	<20	<20	<20	<20
Total Dissolved Solids (mg/l)	290.	100.	410.	270.	330.
Nitrate and Nitrite (as N) (mg/l)	<0.01	0.01	0.02	0.04	0.06
Sulfate as SO ₄ (mg/l)	<1	6.3	94.	1.5	62.
Total Mercury (ug/l)	<0.05	<0.05	<0.05	<0.05	<0.05
Total Copper (ug/l)	3.8	6.1	4.8	5.0	5.9
Total Iron (mg/l)	<0.05	0.130	<0.05	<0.05	<0.05
Total Arsenic (ug/l)	4.0	3.0	3.0	2.0	3.0
Total Chromium (ug/l)	<2	<2	<2	<2	<2
Total Cadmium (ug/l)	<0.1	0.14	<0.1	0.10	<0.1
Total Lead (ug/l)	<1	<1	<1	<1	<1
Total Manganese (mg/l)	0.12	0.30	0.48	0.17	0.09
Total Selenium (mg/l)	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc (mg/l)	0.020	0.030	0.020	<0.02	0.020
Flouride (mg/l)	0.21	0.10	0.22	0.35	0.21
Total Barium (ug/l)	34.3	56.3	105.	18.7	31.6
Total Silver (ug/l)	<1	<1	<1	<1	<1
Total Organic Halide (ug/l)	<5	<5	19	65	29.1

(87-3TLP)