North Carolina
Department of Environment and Natural Resources

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary
Dexter R. Matthews, Interim Director

October 15, 2001

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2502	10106 DOM	DIN 16593

David Gardner, Environmental Manager
Weyerhaeuser Company
P. O. Box 1391
New Bern, North Carolina 28563

Re: Water Quality Monitoring Constituents for Weyerhaeuser Landfill, New Bern.

Dear Mr. Gardner,

After a review of the facilities' water quality-sampling program, the Solid Waste Section has determined adjustments to the water quality-monitoring program are necessary. Water quality samples require some changes to the constituents of concern for laboratory testing. Adjustments must best fit the history of the landfill and match the subsequent reporting with its defined list of constituents. These changes will provide more effective information on groundwater in the review boundary of the waste management area and may reduce ongoing sampling costs.

The unlined landfill facility has been accepting waste since 1969. Updating the list of constituents is necessary since the type of waste placed in the landfill has changed since opening. Include the following water quality testing parameters: pH, temperature, conductivity, sulfate, metals, and methylene chloride. Sampling for BOD, COD, TOC, TDS, TOX, and nitrate nitrogen is not required.

Table 1 provides a detailed list of the required metals. Table 1 is attached to this letter as a reference. Laboratory test method 601 may be used for methylene chloride. All other sampling protocol should remain unchanged.

Semi-annual water quality reports submitted to the Solid Waste Section should include field parameters, and laboratory results for sulfate, metals and methylene chloride.

If you have any questions or need clarification concerning these changes, you can reach me at (919) 733-0692, extension 342 or Larry Rose at extension 257.

Sincerely,

Cheryl Marks

Cheryl Marks
Hydrogeologist
Solid Waste Section

cc: Jim Coffey, Solid Waste Section
Sherri Coghill, Solid Waste Section
Larry Rose, Solid Waste Section
Bobby Nelms, SWS Washington
Bill Morris, Weyerhaeuser Company
Kent Nilsson, RMT

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Table 1
INORGANIC CONSTITUENTS

Parameter	Certification by DEM	PQL in ppb
(1) Antimony	Metals, Group II - low level	30
(2) Arsenic	Metals, Group I - low level	10
(3) Barium	Barium (20)	500
(4) Beryllium	Metals, Group I - low level	2
(5) Cadmium	Metals, Group I - low level	1
(6) Chromium	Metals, Group I - low level	10
(7) Cobalt	Metals, Group I - low level	10
(8) Copper	Metals, Group I - regular level	200
(9) Lead	Metals, Group I - low level	10
(10) Nickel	Metals, Group I - regular level	50
(11) Selenium	Metals, Group I - low level	20
(12) Silver	Metals, Group II - low level	10
(13) Thallium	Metals, Group II - low level	10
(14) Vanadium	Metals, Group I - low level	40
(15) Zinc	Metals, Group I - regular level	50

- The data shall be reported at the specified Practical Quantitation Limit (PQL). In addition to sampling for the constituents referenced above, all sampling should also include field testing of pH, temperature, and specific conductivity. No filtering of samples is allowed. The 3030C preparation method for metals analysis is not allowed.

- Regular ICP (Method 6010) is <u>not</u> approved for analysis of constituents for which low-level certification is required.