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GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT
Ground Water Protection and Remediation Bureau

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April 12, 1996

R. Jan Appel
Vice President and General Counsel
Sparton Corporation
2400 E. Ganson St.
Jackson, MI 49202

Dear Mr. Appel:

Sparton recently invited the New Mexico Environment Department (NMED) to split soil-vapor samples to be collected from ground-water monitoring wells.

Sampling soil vapor from well screens located immediately above the water table is useful for monitoring that horizon. Please be advised, however, that this is not to be interpreted as approval for a complete soil-vapor monitoring system, or as an acceptable substitute for the installation of soil-vapor probes nested at various depths in the vadose zone. Attached for your consideration are specifications and an approximate schematic for vapor-probe nests that NMED believes would be appropriate for the site.

NMED views Sparton's vapor sampling as a positive effort to begin to address the issue of soil vapor in the source area. NMED looks forward to discussing with Sparton acceptable soil-vapor monitoring and, if necessary, extraction systems.

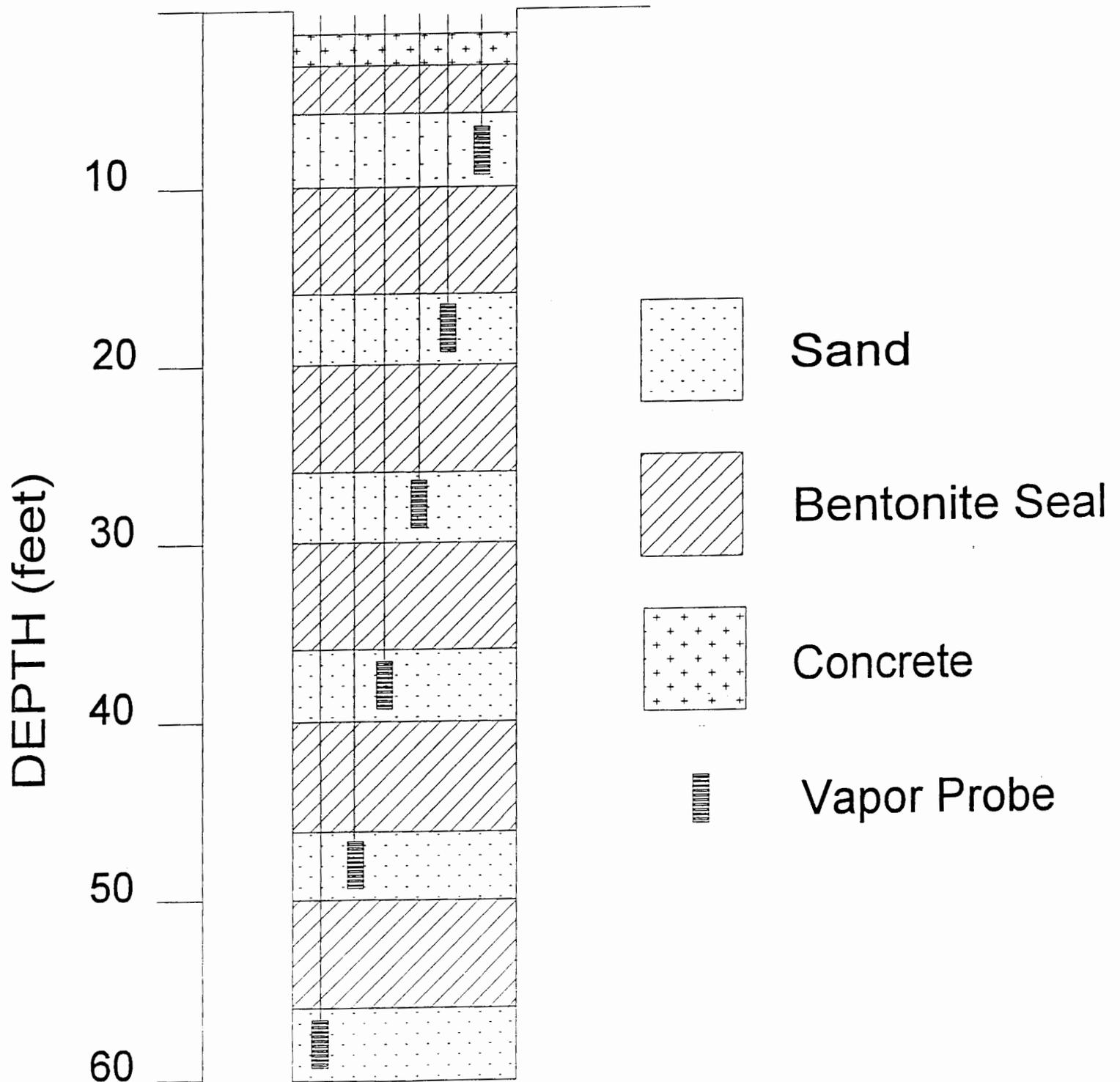
Sincerely,

Dennis McQuillan

Dennis McQuillan
Remediation Manager
Ground Water Quality Bureau

xc Ed Kelley, Director, Water and Waste Management
Ana Marie Ortiz, Office of General Counsel
Ron Kern, Hazardous and Radioactive Materials Bureau
Steve Cary, Office of the Natural Resource Trustee
Vincent Malott, EPA
Norman Gaume, Albuquerque Public Works
Curt Montman, Albuquerque Environmental Health
Richard Brusuelas, Bernalillo County Environmental Health

VAPOR PROBE NEST



VAPOR PROBE CONSTRUCTION

Screen: Constructed of a 12" to 18" length of 1" or 2" diameter 10-slot PVC screen. The screen should be capped on one end. On the other end should be a fitting which slips over the screen and has 3/4" internal threads. A brass fitting with 3/4" treads on one end and 1/4" compression union on the other end should be threaded into the fitting at the end of the screen.

Riser Tube: 1/4" diameter copper tube that has been decontaminated (as is used for ice makers). The tubing is connected at one end to the compression union at the end of the screen. The screen is then lowered down into the hole as the tubing is uncoiled. The copper tubing should be marked with the depth and capped at the surface.

Filter Pack: The volume surrounding the screen should be filled with a 12/20 silica sand. The sand should extend at least one foot above and below the screen.

Seal: Between each screen/sand interval should be a low permeability seal. This seal should have a high bentonite content and a lower permeability than the surrounding formation. The material should be dry. If the interval of the seal is large, the middle portion can contain a higher permeability sand/bentonite mixture. However, each low permeability layer should be at least one foot thick.