

# *Appendix A*

*1995 Environmental Monitoring Program*



*The WVDP Supports a Bluebird and Wood Duck Nesting-box Program  
Sponsored by the Springville Field and Stream Club*

## *1995 Environmental Monitoring Program*

The following schedule represents the West Valley Demonstration Project (WVDP) routine environmental monitoring program for 1995. This schedule met or exceeded the minimum program specifications needed to satisfy the requirements of DOE Order 5400.1. It also met requirements of DOE 5400.5 and DOE/EH-0173T. Specific methods and recommended monitoring program elements are found in DOE/EP-0096, *Effluent Monitoring*, and DOE/EP-0023, *Environmental Surveillance*, which were the bases for selecting most of the schedule specifics. Additional monitoring was mandated by operational safety requirements (OSRs) and air and water discharge permits (40 CFR 61 and SPDES), which also required formal reports. Specifics are identified in the schedule under MONITORING/REPORTING REQUIREMENTS.

Beginning in 1995, results from all locations except groundwater monitoring points were summarized in the Quarterly Environmental Monitoring Data Reports (QEMDRs). Groundwater monitoring data are summarized in quarterly groundwater monitoring results reports. A computerized environmental data-screening system implemented in 1995 identifies analytical data exceeding pre-set trigger limits. All locations were checked monthly for trends or noticeable results in accordance with criteria established in *Documentation and Reporting of Environmental Monitoring Data* (West Valley Nuclear Services Co., Inc. April 13, 1995). Reportable results were then described in the Monthly Trend Analysis Report (MTAR) together with possible causes and corrective actions, if indicated. A WVDP Effluent Summary Report (WESR) is transmitted with each MTAR.

### *Schedule of Environmental Sampling*

The following table is a schedule of environmental sampling at the WVDP. Locations of the sampling points are shown in Figures A-1 through A-9. The index on pp. A-vi through A-ix is a list of the codes for various sample locations. Table headings in the schedule are as follows:

- **Sample Location Code** - The physical location where the sample is collected is described. The code consists of seven characters: The first character identifies the sample medium as **A**ir, **W**ater, **S**oil/**S**ediment, **B**iological, or **D**irect Measurement. The second character specifies o**N**-site or o**Ff**-site. The remaining characters describe the specific location (e.g., **AFGRVAL** is Air **O**ff-site at **G**reat **V**ALley).
- **Monitoring/Reporting Requirements** - The bases for monitoring that location, any additional references to permits or OSRs, and the reports generated from sample data are noted. Routine reports cited in Appendix A are the WVDP Effluent Summary Report (WESR), the Monthly Trend Analysis Report (MTAR), the Quarterly Environmental Monitoring Data Report (QEMDR), the On-site Discharge Report (ODIS), and the annual Site Environmental Report (SER).
- **Sampling Type/Medium** - Describes the collection method and the physical characteristics of the medium.
- **Collection Frequency** - Indicates how often the samples are collected or retrieved.
- **Total Annual Sample Collections** - Specifies the number of discrete physical samples collected annually for each group of analytes.
- **Analyses Performed/Composite Frequency** - Type of analyses of the samples taken at each collection event, the frequency of composite, and the analytes determined for the composite samples are noted.

## *Summary of Monitoring Program Changes for 1995*

<i>Location Code</i>	<i>Description of Changes</i>
<b>ANVITSK</b> <b>ANSEISK</b>	Vitrification stack sampler and seismic sampler. Brought on-line November 1, 1995.
<b>ANCSSTK</b>	System formerly monitoring the cement solidification system ventilation stack was reinstalled at a different area in the same building for monitoring 01-14 building ventilation at the same stack location.
<b>ANLAUNV</b>	Monitoring frequency changed from weekly to monthly.
<b>ANLAGAM</b> <b>ANNDAAM</b>	Ambient diffuse-source air samplers added to the monitoring program in 1995.
<b>ANSDAT9</b>	Analytes and sampling frequency as specified by NYSERDA.
<b>AFDNKRK</b> <b>AFNASHV</b> <b>SFNASHV</b>	<b>AFDNKRK</b> background sampler removed from program because of siting-access restrictions. New background sampler <b>AFNASHV</b> brought on-line in July 1995.
<b>DFTLD #37</b>	Off-site background TLD location, formerly at Dunkirk air sampler, relocated to new Nashville location.
<b>WNSP001</b>	Total manganese and dissolved sulfide added to monitoring program per SPDES permit modification effective November 1, 1994.
<b>WNSP006</b>	Technetium-99 (Tc-99) added to assess concentrations at the point where liquid streams leave the site.
<b>WFBCTCB</b> <b>WFBCBKG</b>	Sampling frequency upgraded from biweekly to weekly for comparability with other surface water monitoring locations. Conductivity and Tc-99 added at <b>WFBCBKG</b> for comparison to liquid effluent discharge points. Conductivity added at <b>WFBCTCB</b> to reflect sampling protocol at other surface water points.
<b>BFMHAUR</b> <b>BFMSCHT</b>	Milk collection dropped from <b>BFMHAUR</b> because the dairy is no longer a commercial source of milk. This monitoring location was replaced by <b>BFMSCHT</b> , another near-site farm.

## *Summary of Monitoring Program Changes for 1995*

### *Location Code*

### *Description of Changes*

**Groundwater  
Monitoring  
Points**

Program reviewed and sampling frequency and analytes tailored to address constituents of concern.

**SF Soil Series  
and On-site  
Soils**

Gross alpha/beta analysis added.

**Sediments**

Collection frequency changed from semiannual to annual.

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\* *Not detailed on map.*

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\* Not detailed on map.

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