

Appendix B: Environmental Surveillance

Media and Sampling Frequencies

Appendix Table B-1 SRS Nonradiological Media and Sampling Frequencies

Media		Sampling Frequency		
		Monthly	Quarterly	Annually
Surface Water^a	Water quality downstream of NPDES outfalls (stream and river)	✓	✓	
Sediment	Surveillance for existence and possible buildup of the inorganic contaminants			✓
Fish	Bioaccumulation of nonradiological contaminants in fish			✓

^a All water quality parameters for surface water are sampled monthly except pesticides. Pesticides are sampled quarterly.

Appendix Table B-2 SRS Radiological Media and Sampling Frequencies

Media		Sampling Frequency				
		Weekly	Bi-Weekly	Monthly	Quarterly	Annually
Air	Airborne particulate matter		✓			
	Gaseous state of radioiodine		✓			
	Tritiated water vapor		✓			
	Tritium in rainwater			✓		
Soil	Radionuclide deposition into soils					✓
Food Products	Radionuclides uptake in the food chain					✓
Vegetation	Radionuclide uptake in plants					✓
TLDs	Ambient gamma radiation monitoring				✓	
Water	Onsite drinking water				✓	✓
	Offsite drinking water			✓		
	Onsite surface water (Streams and basins)	✓		✓		✓
	Savannah River	✓				✓
Sediment	Radionuclides in streambeds, the Savannah River bed, and SRS basin beds					✓
Fish and Shellfish	Radionuclides in freshwater fish, saltwater fish, and shellfish					✓
Wildlife	Radionuclides in onsite deer, feral hogs, turkey, and coyotes during SRS-sponsored hunts					✓