

NRC STAFF EXHIBIT 50

Environmental Measurement and Monitoring Program Sampling Locations, Parameters, and Frequency

Media	Sampling Locations	Parameters	Frequency
Surface water WATER	RW-2, RW-3, RW-5, RW-7, RW-12, RW-13, RW-33, RW-10N, RW-10S, RW-10E, RW-10W	Total U (ICP MS), ⁹⁹ Tc, Gross α & β	Monthly
	RW-1, RW-6, RW-8	Total U (ICP MS), ⁹⁹ Tc, Gross α & β, Fluoride, P-Total	Weekly
Sediments RM	RM-6, RM-1, RM-12, RM-11, RM-7, RM-8, RM-5, RM-13, RM-33, RM-3, RM-2, RM-9, RM-10, RM-10N, RM-10E, RM-10S, RM-10W	ICP Metals (Al, Sb, As, Ba, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Si, Ti, Zn), Hg, Ag, PCBs, Total U (ICP MS), ⁹⁹ Tc, gross alpha/beta	Semi-Annual
Soils SOIL	(RIS-1, 3, 5, 12, 15, 17, 19, 22, 25, 26, 32, 33, 34, 35, 36) (SAS-1, 2, 3, 4, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29) (RS-10N, 10S, 10E, 10W)	Total U (ICP MS), ⁹⁹ Tc, Gross α & β	Semi-Annual
Vegetation VEG	(RIV-1, 3, 5, 12, 15, 17, 19, 22, 25, 26, 32, 33, 34, 35, 36) (SAV-1, 2, 3, 4, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29) (RV-10N, 10S, 10E, 10W)	Total U (ICP MS), ⁹⁹ Tc, Gross α (if Total U >0.1 μg/g), Fluoride, gross alpha/beta	Semi-Annual
Biota (Fish) BIOTA	RW-1, RW-2, RW-6, RW-8	Total U (ICP MS), ⁹⁹ Tc, Gross α & β, PCB and Cr	Annual
Crops, Produce CROPS	5-6 locations	Total U (ICP MS), ⁹⁹ Tc, Gross α (if Total U >0.1 μg/g)	Annual
Wildlife (deer) WILDLIFE	On-site	Total U (ICP MS), ⁹⁹ Tc, Gross α & β, Fluoride, PCB (Fat, fetus)	Annual