

**Table B-1. Compilation of Ambient Air Monitoring Program Parameters at DOE Facilities:
Tritium**

	Length of sampling period	Number of Stations	Adsorbent	Cartridge size or adsorbent mass	Flow rate	Detection limits	Comments	Contact
Los Alamos National Laboratory	2 weeks, continuous	52	Silica Gel	135g	200 cm ³ /min	2 pCi/m ³		Jean Dewart (505) 665-0239
Savannah River Site	2 weeks, continuous	17	Silica Gel	400–450g	150 cm ³ /min	49 pCi/m ³		Pete Fledderman (803) 725-1736
Hanford Site-WMNV	N/A	N/A	N/A	N/A	N/A	N/A	WMNV – Waste Management Northwest. Near Facility Environmental Monitoring	Craig Perkins (509) 372-8042
Hanford Site-PNNL	Monthly	20	Silica Gel	Approximately 1,000 g	0.4 ft ³ /hr	3 pCi/m ³	Pacific Northwest National Laboratory conducts far field monitoring for Hanford.	Barb Gillespie (509) 376-5802
Brookhaven	1 week, continuous	22	Silica Gel	Cartridge size @12" x 2"	200 cm ³ /min	1–4 pCi/m ³		Gary Schroeder (516) 344-7045
INEEL – BBWI	1–8 weeks, continuous, depending on indicator	2–3	Molecular Sieve	200g	120 cm ³ /min	10 pCi/m ³	Bechtel, Babcock & Wilcox Idaho (BBWI) performs near field monitoring.	Maria Miles (208) 526-7924
INEEL – ESRF	1–13 weeks, continuous depending on indicator	4	Silica Gel	230g	300 cm ³ /min	4 x 10 ⁻¹² μCi/ml 4 pCi/m ³	Environmental Science and Research Foundation (ESRF) conducts far field monitoring for INEEL.	Roy Evans (208) 525-7102
Nevada Test Site	2 weeks, continuous	12	Molecular Sieve	350g	570 cm ³ /min	2.9 x 10 ⁻¹² μCi/mL 2.9 pCi/m ³ *		Frank Grossman (702) 295-5742
Oak Ridge National Laboratory	1–2 weeks, continuous, depending on loading	9 Outside Lab 4 on Lab property	Silica Gel	250g	180 cm ³ /min	1.56 μCi/year 1.7 x 10 ⁴ pCi/m ³ *		Laury Hamilton (423) 576-4526 Joan Hughes (423) 574-6649

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E.O. Lawrence Berkeley National Lab	1 Month, continuous	6	Silica Gel	333g 480 cc	100 cm ³ /min	10 pCi/m ³		Patrick Thorson (510) 486-5852
Sandia National Laboratories	N/A	N/A	N/A	N/A	N/A	N/A	No routine tritium monitoring. Tritium monitoring may be done on a project specific basis.	Gina Deola (505)845-7688
Argonne National Laboratory	N/A	N/A	N/A	N/A	N/A	N/A	No tritium monitoring	Norbert Golchert (630)252-3912
Pantex	U tube – 1 week, continuous Dual cartridge- 4 weeks, continuous	10 17 (27 total)	Silica Gel	U-tube – 200 g Dual cartridges –400 g each	U-Tube—1.5 cfm (42.5 L/min) Dual Cartridges –180 cm ³ /min	0.5 dpm/mL (1.1 x 10 ³ pCi/m ³ *)	Two monitoring systems are used. Oxidized tritium (tritiated water vapor) is measured at 10 stations. Both oxidized and elemental tritium are measured using a monitoring system placed at 17 locations.	David W. Griffis (806) 477-4426
Lawrence Livermore	2 weeks, continuous	20	Silica Gel	~1,000 g in a glass flask	700 cm ³ /min	0.4 pCi/m ³	Use freeze-dried technique	Paula Tate (925) 423-4858
Waste Isolation Pilot Plant	N/A	N/A	N/A	N/A	N/A	N/A	No tritium monitoring	Stewart Jones (505) 234-8293
Rocky Flats-APCD	N/A	N/A	N/A	N/A	N/A	N/A	No tritium monitoring	Richard Fox (303) 692-3251
Rocky Flats-LARS	Weekly; quarterly composites	3	Collect precipitation	N/A	N/A	~140 pCi/L	Precipitation only; No conversion to air	Tony Harrison (303) 692-3046
Rocky Flats-RFETS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Bob Nininger (303) 966-4663
Mound Plant	Weekly	20	Ethylene glycol, Bubbler	200 mL	1000cm ³ /min	20x10 ⁻¹² μCi/mL 20 pCi/m ³ *	HTO only	Steve Howard (937) 865-4188

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Fernald Environmental Management Project	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Kathy Nickel (513) 648-3166
Knolls Atomic Power Laboratory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Doug Marx (518) 395-6169
Bettis Atomic Power Laboratory	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Connie Carpenter (412) 476-7388

* Denotes a calculation and is not the value and/or units given by the facility.