

TABLE C-3. Quarterly Americium-241, Cesium-137, Plutonium-238, Plutonium-239/240, and Strontium-90 Concentrations in Composite Air Filters.

Sampling Group and Location	Sampling Date	Analyte	Result ± 1s Uncertainty (x 10 ⁻¹⁸ µCi/mL)			Result ± 1s Uncertainty (x 10 ⁻¹³ Bq/mL)			Result > 3s
BOUNDARY									
ARCO	6/29/2007	CESIUM-137	48.70	±	193.00	180.19	±	714.10	
ATOMIC CITY	6/29/2007	CESIUM-137	-103.00	±	200.00	-381.10	±	740.00	
		STRONTIUM-90	286.00	±	31.25	1058.20	±	115.63	Y
BLUE DOME	6/29/2007	CESIUM-137	90.30	±	119.00	334.11	±	440.30	
FAA TOWER	6/29/2007	AMERICIUM-241	0.00	±	0.00	0.00	±	0.00	
		CESIUM-137	28.60	±	236.00	105.82	±	873.20	
		PLUTONIUM-238	16.25	±	3.13	60.13	±	11.58	Y
		PLUTONIUM-239/40	0.49	±	1.10	1.82	±	4.07	
HOWE	6/29/2007	CESIUM-137	115.00	±	101.00	425.50	±	373.70	
MONTEVIEW	6/29/2007	CESIUM-137	-67.80	±	173.00	-250.86	±	640.10	
		STRONTIUM-90	20.50	±	11.30	75.85	±	41.81	
MUD LAKE	6/29/2007	AMERICIUM-241	1.02	±	0.62	3.77	±	2.31	
		CESIUM-137	-302.00	±	384.00	-1117.40	±	1420.80	
		PLUTONIUM-238	0.92	±	0.56	3.39	±	2.08	
		PLUTONIUM-239/40	-0.92	±	0.46	-3.39	±	1.70	
MUD LAKE (QA-2)	6/29/2007	AMERICIUM-241	3.34	±	1.18	12.34	±	4.35	
		CESIUM-137	346.00	±	169.00	1280.20	±	625.30	
		PLUTONIUM-238	0.93	±	0.47	3.45	±	1.73	
		PLUTONIUM-239/40	1.16	±	0.70	4.31	±	2.59	
DISTANT									
BLACKFOOT	6/29/2007	CESIUM-137	62.50	±	133.00	231.25	±	492.10	
		STRONTIUM-90	-8.40	±	18.60	-31.08	±	68.82	
CRATERS	6/29/2007	CESIUM-137	-187.00	±	179.00	-691.90	±	662.30	
DUBOIS	6/29/2007	CESIUM-137	342.00	±	251.00	1265.40	±	928.70	
IDAHO FALLS	6/29/2007	AMERICIUM-241	0.00	±	0.00	0.00	±	0.00	
		CESIUM-137	-507.00	±	365.00	-1875.90	±	1350.50	
		PLUTONIUM-238	8.87	±	1.52	32.82	±	5.64	Y
		PLUTONIUM-239/40	5.52	±	1.20	20.42	±	4.44	Y
JACKSON	6/29/2007	CESIUM-137	134.00	±	203.00	495.80	±	751.10	
REXBURG CMS	6/29/2007	CESIUM-137	-3.78	±	109.00	-13.99	±	403.30	
		STRONTIUM-90	62.20	±	18.90	230.14	±	69.93	Y

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INL SITE									
EFS	6/29/2007	CESIUM-137	61.60	±	120.00	227.92	±	444.00	
		STRONTIUM-90	13.60	±	12.70	50.32	±	46.99	
EFS (QA-1)	6/29/2007	CESIUM-137	247.00	±	162.00	913.90	±	599.40	
		STRONTIUM-90	9.91	±	10.85	36.67	±	40.15	
MAIN GATE	6/29/2007	AMERICIUM-241	34.65	±	5.62	128.21	±	20.79	Y
		CESIUM-137	-564.00	±	403.00	-2086.80	±	1491.10	
		PLUTONIUM-238	1.17	±	0.55	4.33	±	2.04	
		PLUTONIUM-239/40	0.78	±	0.55	2.88	±	2.04	
VAN BUREN GATE	6/29/2007	AMERICIUM-241	1.72	±	1.01	6.35	±	3.72	
		CESIUM-137	182.00	±	164.00	673.40	±	606.80	
		PLUTONIUM-238	1.25	±	0.78	4.63	±	2.89	
		PLUTONIUM-239/40	10.73	±	1.50	39.70	±	5.56	Y