

CEMRC Radiological Results Station A B

<b>Station A (Pre-HEPA Filter)</b>											
Date/Time Installed	Date/Time Removed	241Am Bq/Sample Gamma Spectroscopy	241Am Bq/m3* Gamma	241Am Bq/Sample Alpha Spectroscopy	241Am Bq/m3* Alpha	239+240Pu Bq/Sample	239+240Pu Bq/m3*	238Pu Bq/Sample	238Pu Bq/m3*	137Cs Bq/Sample	137Cs Bq/m3*
2/14/14, 07:43	2/15/14, 06:30	96,333.33	1,364.95	306,000.00	4,335.71	47,400.00	671.61	2,140.00	30.32	0.34	0.0049
2/15/14, 06:30	2/15/14, 08:40	3,830.00	520.00	8,660.00	1,175.76	1,374.00	186.55	72.00	9.78	n/d	n/d
2/15/14, 08:40	2/15/14, 23:30	6,540.00	135.80	11,150.00	231.53	870.00	18.07	37.60	0.7808	n/d	n/d
2/15/14, 23:30	2/16/14, 08:50	831.33	26.20	Bad recovery	Bad recovery	40.21	1.27	1.08	0.0341	n/d	n/d
2/16/14, 08:50	2/16/14, 16:50	227.38	8.36	229.32	8.43	17.05	0.627	1.24	0.0457	n/d	n/d
2/16/14, 16:50	2/17/14, 00:15	76.50	3.03	73.36	2.91	6.19	0.245	4.03	0.1599	n/d	n/d
2/17/14, 00:15	2/17/14, 08:20	58.17	2.12	57.96	2.11	5.01	0.182	0.626	0.0228	n/d	n/d
2/17/14, 08:20	2/17/14, 16:20	25.90	0.953	21.14	0.777	1.93	0.071	0.146	0.0054	n/d	n/d
2/17/14, 16:20	2/18/14, 00:10	18.96	0.712	37.12	1.394	1.85	0.069	0.090	0.0034	n/d	n/d
2/18/14, 00:10	2/18/14, 08:20	6.96	0.251	12.88	0.464	0.700	0.025	0.032	0.0011	n/d	n/d
2/18/14, 08:20	2/18/14, 16:05	8.22	0.312	9.29	0.353	0.820	0.031	0.039	0.0015	n/d	n/d
2/18/14, 16:05	2/19/14, 00:40	12.16	0.417	10.66	0.365	0.950	0.033	0.044	0.0015	n/d	n/d
2/19/14, 00:40	2/19/14, 08:23	5.28	0.201	4.62	0.176	0.380	0.014	0.018	0.0007	n/d	n/d
2/19/14, 08:23	2/19/14, 16:00	4.60	0.178	3.86	0.149	0.358	0.014	0.020	0.0008	n/d	n/d
2/19/14, 16:00	2/20/14, 00:08	3.98	0.144	4.32	0.156	0.432	0.016	0.016	0.0006	n/d	n/d
2/20/14, 00:10	2/20/14, 08:17	8.12	0.294	8.28	0.300	0.724	0.026	0.031	0.0011	n/d	n/d
2/20/14, 08:17	2/20/14, 16:24	3.58	0.130	3.34	0.121	0.302	0.011	0.013	0.0005	n/d	n/d
02/20/14, 16:24	02/21/14, 00:12	4.82	0.182	4.16	0.157	0.428	0.016	0.021	0.0008	n/d	n/d
02/21/14, 00:12	02/21/14, 08:45	9.68	0.333	8.98	0.309	0.810	0.028	0.039	0.0013	n/d	n/d
2/21/14, 08:45	2/22/14, 0:50	7.86	0.144	8.18	0.150	0.870	0.016	0.037	0.0007	n/d	n/d
2/21/14, 0:50	2/23/14, 0:11	34.00	0.428	Reanalyzing	Reanalyzing	3.460	0.044	0.150	0.0019	n/d	n/d
2/23/14, 0:11	2/24/14, 0:25	12.52	0.191	Reanalyzing	Reanalyzing	1.370	0.021	0.061	0.0009	n/d	n/d
2/24/14, 0:25	2/25/14, 0:05	6.36	0.079	7.24	0.090	0.662	0.008	0.037	0.0005	n/d	n/d
2/25/14, 0:05	2/26/14, 0:25	4.76	0.058	5.20	0.063	0.480	0.006	0.344	0.0042	n/d	n/d
2/26/14, 0:25	2/27/14, 0:15	2.48	0.031	1.74	0.021	0.175	0.002	0.007	0.0001	n/d	n/d
2/27/14, 0:15	2/28/14, 0:16	1.44	0.017	1.41	0.017	0.143	0.002	0.007	0.0001	n/d	n/d
n/d = no detection		Bq/m3* = Total activity is converted to activity per cubic meter (m3) using flow rate and time					Grey shaded area reflects composite sample (three 8-hour periods)				
Results for 241Am were obtained by analyzing samples on both Gamma Spectroscopy and Alpha Spectroscopy, results from each instrument type are provided.											
<b>Station B (Post-HEPA Filter)</b>											
Date/Time Installed	Date/Time Removed	241Am Bq/Sample Gamma Spectroscopy	241Am Bq/m3* Gamma	241Am Bq/Sample Alpha Spectroscopy	241Am Bq/m3* Alpha	239+240Pu Bq/Sample	239+240Pu Bq/m3*	238Pu Bq/Sample	238Pu Bq/m3*	137Cs Bq/Sample	137Cs Bq/m3*
2/14/14, 07:55	2/18/14, 16:55	667.90	1.83	842.00	2.30	82.73	0.2261	11.94	0.03260	n/d	n/d
2/18/14, 16:55	2/19/14, 01:10	1.35	0.0470	1.700	0.0587	0.148	0.0051	0.007	0.00020	n/d	n/d
2/19/14, 01:11	2/19/14, 09:00	0.75	0.0272	0.930	0.0337	0.105	0.0038	0.005	0.00019	n/d	n/d
2/19/14, 09:00	2/19/14, 16:27	1.33	0.0507	1.530	0.0582	0.202	0.0077	0.011	0.00043	n/d	n/d
2/19/14, 16:27	2/20/14, 00:35	1.21	0.0423	1.450	0.0506	0.121	0.0042	0.006	0.00022	n/d	n/d
2/20/14, 00:35	2/20/14, 08:52	1.14	0.0390	1.08	0.0372	0.101	0.0035	0.004	0.00013	n/d	n/d
2/20/14, 08:52	2/20/14, 16:54	1.89	0.0670	1.950	0.0688	0.199	0.0070	0.007	0.00024	n/d	n/d
2/20/14, 16:54	2/21/14, 00:38	0.48	0.0176	0.926	0.0340	0.084	0.0031	0.006	0.00021	n/d	n/d
2/21/14, 00:38	2/21/14, 08:28	0.68	0.0247	0.736	0.0268	0.062	0.0022	0.003	0.00010	n/d	n/d
2/21/14, 8:20	2/22/14, 0:19	2.02	0.0360	2.520	0.0450	0.250	0.0045	0.011	0.00020	n/d	n/d
2/22/14, 0:19	2/22/14, 23:56	0.91	0.0110	1.580	0.0190	0.150	0.0018	0.006	0.00010	n/d	n/d
2/22/14, 23:56	2/24/14, 0:15	1.06	0.0120	1.040	0.0120	0.098	0.0012	0.004	0.00010	n/d	n/d
2/24/14, 0:15	2/25/14, 0:16	0.40	0.0050	0.514	0.0060	0.054	0.0006	0.002	0.00002	n/d	n/d
2/25/14, 0:16	2/26/14, 0:10	0.21	0.0030	0.298	0.0035	0.027	0.0003	0.005	0.00006	n/d	n/d
2/26/14, 0:10	2/27/14, 0:30	0.44	0.0050	0.340	0.0040	0.037	0.0004	0.006	0.00007	n/d	n/d
2/27/14, 0:30	2/28/14, 0:12	0.27	0.0030	0.296	0.0036	0.031	0.0004	0.007	0.00008	n/d	n/d
n/d = no detection		Bq/m3* = Total activity is converted to activity per cubic meter (m3) using flow rate and time					Grey shaded area reflects composite sample (three 8-hour periods)				
Results for 241Am were obtained by analyzing samples on both Gamma Spectroscopy and Alpha Spectroscopy, results from each instrument type are provided.											