Table 3-1. Summary Statistics for TSP, Metals, and Sulfate on 24-hr High Volume TSP Filters

Units = $\mu g/m^3$	Number of samples	Number of detects	Percent detects	Minimum detect	Maximum detect	Minimum nondetect	Maximum nondetect	Mean	95%UCL on the mean	Human Health Screening Levels			
										Acute[A]	Does maximum exceed screening	Chronic[B]	Does maximum exceed screening
TSP	413	413	100	1.24E+00	1.93E+02	n/a	n/a	2.49E+01	2.88E+01	1.00E+04	no	n/a	n/a
ALUMINUM	449	432	96	1.96E-02	3.42E+00	1.84E-02	2.16E-02	3.07E-01	3.66E-01	1.00E+04	no	5.20E+00	no
ARSENIC	449	46	10	3.59E-04	3.38E-03	4.75E-04	1.37E-03	6.22E-04	6.78E-04	1.90E-01	no	5.70E-04	yes
BARIUM	420	6	1.4	1.83E-02	3.60E-02	1.55E-02	2.52E-02	1.83E-02	1.84E-02	5.00E+02	no	5.20E-01	no
BERYLLIUM	420	186	44	4.07E-06	1.70E-04	3.76E-06	6.35E-05	1.02E-05	1.13E-05	2.50E+01	no	1.00E-03	no
CADMIUM	449	318	71	2.23E-05	2.37E-03	2.41E-05	1.15E-04	5.43E-05	6.67E-05	5.00E+00	no	1.40E-03	yes
CALCIUM	420	211	50	4.21E-01	3.11E+00	4.01E-01	6.50E-01	5.91E-01	6.13E-01	1.00E+04	no	n/a	n/a
CHROMIUM	449	10	2.2	1.23E-03	1.75E-03	8.52E-04	7.45E-03	1.29E-03	1.33E-03	1.00E+03	no	1.50E-04	yes
COBALT	449	6	1.3	1.63E-03	5.19E-03	8.52E-04	2.68E-03	1.64E-03	1.66E-03	1.00E+02	no	2.70E-04	yes
COPPER	449	449	100	9.93E-03	3.37E-01	n/a	n/a	5.74E-02	6.00E-02	1.00E+02	no	n/a	n/a
IRON	420	386	92	3.37E-02	9.24E+00	1.47E-02	2.61E-01	4.35E-01	4.91E-01	1.50E+03	no	n/a	n/a
LEAD	420	391	93	1.72E-04	8.41E-03	1.60E-04	1.19E-03	1.29E-03	1.38E-03	5.00E+01	no	1.50E-01	no
MAGNESIUM	420	364	87	4.57E-02	1.88E+00	4.36E-02	7.03E-02	2.09E-01	2.23E-01	1.00E+04	no	n/a	n/a
MANGANESE	449	418	93	9.54E-04	1.26E-01	8.55E-04	1.60E-02	1.15E-02	1.24E-02	2.00E+02	no	5.20E-02	yes
MERCURY	414	127	31	2.94E-07	5.76E-05	1.62E-07	2.96E-04	7.81E-06	9.00E-06	1.80E+00	no	3.10E-01	no
MOLYBDENUM	420	18	4.3	5.54E-04	1.92E-03	4.91E-04	7.96E-04	5.71E-04	5.80E-04	1.00E+04	no	n/a	n/a
NICKEL	449	32	7.1	7.10E-04	3.64E-03	6.53E-04	2.53E-03	9.81E-04	1.05E-03	6.00E+00	no	1.00E-02	no
SELENIUM	420	18	4.3	8.90E-04	2.77E-03	7.59E-04	1.23E-03	9.14E-04	9.28E-04	2.00E+02	no	2.10E+01	no
SILVER	420	320	76	6.69E-06	1.54E-04	6.41E-06	1.26E-04	2.15E-05	2.27E-05	1.00E+01	no	n/a	n/a
SODIUM	420	27	6.4	9.57E-01	5.44E+00	9.02E-01	1.46E+00	1.02E+00	1.05E+00	5.00E+02	no	n/a	n/a
SULFATE	27	25	93	2.04E-01	4.53E+00	4.03E-01	1.04E+00	1.06E+00	1.36E+00	1.20E+02	no	n/a	n/a
VANADIUM	420	148	35	1.37E-03	4.99E-03	1.30E-03	9.88E-03	1.68E-03	1.73E-03	3.00E+01	no	n/a	n/a
ZINC	420	320	76	2.79E-03	4.31E-02	2.78E-03	9.88E-03	6.13E-03	6.50E-03	2.50E-01	no	n/a	n/a

n/a - not applicable or not available

A - Sources presented on Table 5-1

B - U.S. EPA Regional Screeening Levels, April 2009, for 30 year exposure except lead which is the National Ambient Air Quality Standard rolling 3-month average

Table 3-2. Summary Statistics for PM_{10}, Metals, and Sulfate on 24-hr High Volume PM_{10} Filters

Units = $\mu g/m^3$	Number of samples	Number of detects	Percent detects	Minimum detect	Maximum detect	Minimum nondetect	Maximum nondetect	Mean	95%UCL on the mean	Human Health Screening Levels			
										Acute[A]	Does maximum exceed screening level?	Chronic[B]	Does maximum exceed screening level?
PM_{10}	820	813	99	1.42E-01	1.66E+02	4.92E-02	6.52E-02	1.05E+01	1.11E+01	1.00E+04	no	1.50E+02	n/a
ALUMINUM	818	673	82	2.14E-02	2.03E+00	2.01E-02	2.65E-01	1.44E-01	1.54E-01	1.00E+04	no	5.20E+00	no
ARSENIC	818	55	6.7	4.41E-04	4.47E-03	3.76E-04	1.29E-03	5.04E-04	5.20E-04	1.90E-01	no	5.70E-04	yes
BARIUM	586	4	0.68	2.04E-02	3.58E-02	1.19E-02	2.37E-02	2.05E-02	2.05E-02	5.00E+02	no	5.20E-01	no
BERYLLIUM	586	139	24	4.14E-06	9.94E-05	2.87E-06	4.69E-05	5.93E-06	6.32E-06	2.50E+01	no	1.00E-03	no
CADMIUM	818	427	52	1.51E-05	2.83E-03	1.37E-05	1.74E-04	4.03E-05	4.63E-05	5.00E+00	no	1.40E-03	yes
CALCIUM	586	55	9.4	3.63E-01	2.06E+00	3.07E-01	7.51E-01	4.03E-01	4.15E-01	1.00E+04	no	n/a	n/a
CHROMIUM	818	86	11	1.08E-03	1.84E-02	1.01E-03	7.91E-03	1.49E-03	1.56E-03	1.00E+03	no	1.50E-04	yes
COBALT	818	10	1.2	1.43E-03	2.01E-02	9.72E-04	2.52E-03	1.48E-03	1.52E-03	1.00E+02	no	2.70E-04	yes
COPPER	818	805	98	1.74E-03	3.61E-01	1.62E-03	1.11E-02	1.32E-02	1.42E-02	1.00E+02	no	n/a	n/a
IRON	586	475	81	1.28E-02	3.41E+00	1.10E-02	2.31E-01	1.76E-01	1.97E-01	1.50E+03	no	n/a	n/a
LEAD	586	513	88	1.89E-04	1.16E-02	1.96E-04	1.26E-03	9.76E-04	1.04E-03	5.00E+01	no	1.50E-01	n/a
MAGNESIUM	586	380	65	4.68E-02	5.98E-01	4.78E-02	2.24E-01	1.03E-01	1.09E-01	1.00E+04	no	n/a	n/a
MANGANESE	818	712	87	9.96E-04	6.76E-02	9.34E-04	1.41E-02	5.90E-03	6.23E-03	2.00E+02	no	5.20E-02	yes
MERCURY	462	128	28	3.45E-07	6.67E-04	1.66E-07	1.72E-04	7.38E-06	1.07E-05	1.80E+00	no	3.10E-01	no
MOLYBDENUM	586	11	1.9	6.33E-04	2.60E-03	3.76E-04	7.63E-04	6.38E-04	6.44E-04	1.00E+04	no	n/a	n/a
NICKEL	818	133	16	6.09E-04	2.72E-02	5.07E-04	8.46E-03	8.26E-04	8.87E-04	6.00E+00	no	1.00E-02	yes
SELENIUM	586	7	1.2	9.96E-04	1.80E-03	5.81E-04	1.16E-03	9.99E-04	1.00E-03	2.00E+02	no	2.10E+01	no
SILVER	586	143	24	6.93E-06	1.27E-04	4.87E-06	3.60E-05	8.95E-06	9.43E-06	1.00E+01	no	n/a	n/a
SODIUM	586	9	1.5	1.09E+00	2.43E+00	6.90E-01	1.37E+00	1.09E+00	1.10E+00	5.00E+02	no	n/a	n/a
SULFATE	225	196	87	2.20E-01	5.46E+00	2.76E-01	1.85E+00	8.32E-01	9.08E-01	1.20E+02	no	n/a	n/a
VANADIUM	586	74	13	1.06E-03	2.40E-02	1.01E-03	4.61E-03	1.33E-03	1.43E-03	3.00E+01	no	n/a	n/a
ZINC	586	258	44	2.50E-03	4.47E-02	2.13E-03	1.31E-02	4.36E-03	4.63E-03	2.50E-01	no	n/a	n/a

n/a - not applicable or not available

A - Sources presented on Table 5-1

B - U.S. EPA Regional Screeening Levels, April 2009, for 30 year exposure except lead and PM_{10} which are National Ambient Air Quality Standards. Lead is a rolling 3-month average and PM_{10} is a 24-hour value not to be exceeded more than once a year on average over 3 years

Table 3-3. Summary Statistics for Radiochemicals on 24-hr High Volume TSP Filters

Units = fCi/m^3	Number of samples	Number of detects	Percent detects	Minimum detect	Maximum detect	Minimum nondetect	Maximum nondetect	Mean	95%UCL on the mean	Human Health Screening Levels			
										Acute[A]	Does maximum exceed screening level?	Chronic[B]	Does maximum exceed screening level?
ALPHA, GROSS	449	248	55	1.59 ±0.685	29.6 ±8.29	0.0408 ±0.0336	8.40 ±14.2	4.21	4.53	n/a	n/a	n/a	n/a
BETA, GROSS	420	402	96	1.07 ±0.784	185 ±32.8	2.33 ±1.21	96.7 ±17.9	21.7	23.6	n/a	n/a	n/a	n/a
RADIUM-226	449	61	14	0.134 ±0.0974	1.10 ±0.349	0.103 ±0.0757	0.820 ±0.246	0.180	0.189	n/a	n/a	4.60E-01	yes
RADIUM-228	449	74	16	0.754 ±0.393	11.5 ±1.74	0.293 ±0.151	4.56 ±1.20	1.03	1.09	n/a	n/a	1.20E+00	yes
THORIUM-228	449	29	6.5	0.0102 ±0.00921	0.334 ±0.179	0.00666 ±0.00615	0.634 ±0.236	0.0306	0.0367	n/a	n/a	4.10E-02	yes
THORIUM-230	449	102	23	0.0115 ±0.0109	1.75 ±0.472	0.00570 ±0.00421	0.612 ±0.376	0.0776	0.0903	n/a	n/a	1.86E-01	yes
THORIUM-232	449	16	3.6	0.0893 ±0.0802	0.514 ±0.236	0.00520 ±0.00469	0.612 ±0.230	0.0930	0.0953	n/a	n/a	1.22E-01	yes
URANIUM-234	420	16	3.8	0.0452 ±0.0416	6.18 ±2.45	0.0223 ±0.0223	0.703 ±0.361	0.0820	0.211	n/a	n/a	4.64E-01	yes
URANIUM-235	420	2	0.48	1.76 ±0.871	3.30 ±1.60	0.0223 ±0.0223	0.452 ±0.284	n/a	n/a	n/a	n/a	5.24E-01	yes
URANIUM-238	420	13	3.1	0.0776 ±0.0593	3.06 ±1.56	0.0243 ±0.0180	0.638 ±0.247	0.0970	0.111	n/a	n/a	5.68E-01	yes

n/a - not applicable or not available

A - Radiochemicals do not have acute health effect levels

B - Oak Ridge National Laboratory preliminary remediation goals (PRGs) for residents

Table 3-4. Summary Statistics for Radiochemicals on 24-hr High Volume PM_{10} Filters

Units = fCi/m^3	Number of samples	Number of detects	Percent detects	Minimum detect	Maximum detect	Minimum nondetect	Maximum nondetect	Mean	95%UCL on the mean	Human Health Screening Levels			
										Acute[A]	Does maximum exceed screening level?	Chronic[B]	Does maximum exceed screening level?
ALPHA, GROSS	818	369	45	0.586 ±0.419	46.8 ±13.2	0.0361 ±0.0274	9.64 ±4.49	2.97	3.18	n/a	n/a	n/a	n/a
BETA, GROSS	586	549	94	0.834 ±0.615	125 ±20.7	2.13 ±0.999	87.1 ±12.4	17.9	19.3	n/a	n/a	n/a	n/a
RADIUM-226	818	97	12	0.0976 ±0.0718	3.16 ±0.862	0.0296 ±0.0207	1.50 ±0.403	0.173	0.186	n/a	n/a	4.60E-01	yes
RADIUM-228	818	124	15	0.726 ±0.368	22.0 ±3.14	0.526 ±0.282	5.59 ±1.43	1.02	1.08	n/a	n/a	1.20E+00	yes
THORIUM-228	817	12	1.5	0.162 ±0.133	2.63 ±0.860	0.00551 ±0.00407	1.24 ±0.323	0.167	0.173	n/a	n/a	4.10E-02	yes
THORIUM-230	817	133	16	0.0143 ±0.0113	11.2 ±2.52	0.00517 ±0.00385	0.993 ±0.397	0.0839	0.110	n/a	n/a	1.86E-01	yes
THORIUM-232	817	7	0.86	0.149 ±0.128	2.04 ±0.688	0.00524 ±0.00390	0.475 ±0.290	0.153	0.158	n/a	n/a	1.22E-01	yes
URANIUM-234	586	8	1.4	0.0485 ±0.0450	6.51 ±1.91	0.0281 ±0.0295	1.46 ±0.535	0.0706	0.0921	n/a	n/a	4.64E-01	yes
URANIUM-235	586	0	0	n/a	n/a	0.0250 ±0.0185	0.722 ±0.0926	n/a	n/a	n/a	n/a	5.24E-01	n/a
URANIUM-238	586	4	0.68	0.0870 ±0.0651	2.98 ±1.19	0.0270 ±0.0283	1.46 ±0.149	0.0962	0.108	n/a	n/a	5.68E-01	yes

n/a - not applicable or not available

A - Radiochemicals do not have acute health effect levels

B - Oak Ridge National Laboratory preliminary remediation goals (PRGs) for residents