Mixed Analyte Performance Evaluation Program

Statistical Summary

Sample ID: MAPEP-06-MaS16

Mixed Analyte Soil Standard

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Antimony	24	14	76.28	7.08	90.4		63.3 - 117.5	(mg/kg)
Arsenic	26	25	72.24	5.98	79.6		55.7 - 103.5	(mg/kg)
Barium	26	25	604.12	49.09	634		444 - 824	(mg/kg)
Beryllium	26	25	21.55	2.08	23.55		16.48 - 30.61	(mg/kg)
Cadmium	27	24	15.18	0.85	16.53		11.57 - 21.49	(mg/kg)
Chromium	27	24	41.63	5.34	42		29 - 55	(mg/kg)
Cobalt	26	25	93.83	8.39	102.7		71.9 - 133.5	(mg/kg)
Copper	25	25	86.11	10.50	94		66 - 122	(mg/kg)
Lead	27	26	65.53	6.54	69.8		48.9 - 90.7	(mg/kg)
Mercury	25	25	0.87	0.06	0.945		0.661 - 1.228	(mg/kg)
Nickel	27	25	60.45	6.38	65		46 - 84	(mg/kg)
Selenium	25	24	17.26	1.43	18.98		13.28 - 24.67	(mg/kg)
Silver	25	22	35.56	3.34	37.7		26.4 - 49.0	(mg/kg)
Thallium	26	24	49.67	5.01	54.2		37.9 - 70.5	(mg/kg)
Uranium-Total	14	12	11.49	1.32	12.9		9.0 - 16.8	(mg/kg)
Uranium-235	7	6	0.08	0.01	0.088		0.062 - 0.114	(mg/kg)
Uranium-238	7	7	11.48	0.89	12.8		9.0 - 16.6	(mg/kg)
Vanadium	25	25	182.93	22.92	198		139 - 257	(mg/kg)
Zinc	26	23	289.29	28.44	316		221 - 411	(mg/kg)
Americium-241	53	51	97.35	9.46	105.47		73.83 - 137.11	(Bq/kg)
Cesium-134	67	65	421.23	39.78	452.13		316.49 - 587.77	(Bq/kg)
Cesium-137	68	64	537.85	39.52	525.73		368.01 - 683.45	(Bq/kg)
Cobalt-57	69	67	689.11	65.25	676.33		473.43 - 879.23	(Bq/kg)
Cobalt-60	51	49			1.98	Sensitivity Evaluation		
Iron-55	7	4	719.81	137.87	780.71		546.5 - 1014.9	(Bq/kg)
Manganese-54	68	65	621.77	44.53	594.25		415.98 - 772.52	(Bq/kg)
Nickel-63	13	11	654.48	55.10	672.3		470.6 - 874.0	(Bq/kg)
Plutonium-238	33	32	82.75	7.05	82		57 - 107	(Bq/kg)
Plutonium-239/240	33	33			0.93	Sensitivity Evaluation		
Potassium-40	61	58	615.89	47.20	604		423 - 785	(Bq/kg)
Strontium-90	30	29	216.15	20.15	223.3		156.3 - 290.3	(Bq/kg)
Technetium-99	21	18	208.57	25.65	218.01		152.61 - 283.41	(Bq/kg)
Uranium-234/233	33	33	141.81	12.40	152.44		106.71 - 198.17	(Bq/kg)
Uranium-238	37	36	149.05	14.49	158.73		111.11 - 206.35	(Bq/kg)
Zinc-65	68	65	963.18	74.96	903.61		632.53 - 1174.69	(Bq/kg)

Note:

Outliers are excluded from the statistical summary.
Outliers are defied as laboratory data with a bias greater than 30 percent.
(1) T = Total Number of Laboratories Reporting Analyte.
(2) A = Number of Laboratories with 'Acceptable' Performance.

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Hexachloroethane	17	17	239.02	87.54	239		QL - 502	(ug/kg)
2,4-Dichlorophenol	19	19	4879.68	1231.95	4880		1185 - 8574	(ug/kg)
1,2,4-Trichlorobenzene	19	19	2246.34	918.37	2246		QL - 5000	(ug/kg)
Hexachlorobutadiene	18	18	1726.70	645.49	1727		QL - 3662	(ug/kg)
4-Chloro-3-methylphenol	19	19	3072.57	813.48	3073		633 - 5512	(ug/kg)
2-Methylphenol	18	18	346.77	145.25	346.8		QL - 782	(ug/kg)
Hexachlorocyclopentadiene	18	18	362.95	123.92	363		QL - 734	(ug/kg)
2,4,6-Trichlorophenol	19	19	1278.59	308.99	1279		352 - 2205	(ug/kg)
2-Chloronaphthalene	18	18	1005.13	264.30	1005		212 - 1798	(ug/kg)
Dimethylphthalate	19	19	4176.06	746.45	4176		1937 - 6415	(ug/kg)
2,6-Dinitrotoluene	18	18	2367.00	518.15	2367		813 - 3921	(ug/kg)
Acenaphthene	19	19	1444.80	328.85	1445		458 - 2431	(ug/kg)
2,4-Dinitrotoluene	19	19	1662.94	343.33	1663		633 - 2692	(ug/kg)
Fluorene	19	19	2971.06	677.29	2971		940 - 5002	(ug/kg)
Diethylphthalate	19	19	2550.16	500.40	2550		1049 - 4051	(ug/kg)
Hexachlorobenzene	19	19	1671.06	376.38	1671		542 - 2800	(ug/kg)
Anthracene	18	18	1730.93	309.40	1731		803 - 2659	(ug/kg)
Di-n-butylphthalate	19	18	3863.57	1231.65	3864		170 - 7557	(ug/kg)
Fluoranthene	18	18	5890.94	1282.49	5891		2045 - 9737	(ug/kg)
Pyrene	19	18	2355.13	434.58	2355		1052 - 3658	(ug/kg)
Benzo(a)anthracene	19	19	2757.72	551.82	2758		1103 - 4413	(ug/kg)
Chrysene	19	19	3274.50	736.95	3274		1065 - 5485	(ug/kg)
Bis(2-ethylhexyl)phthalat	19	19	10884.95	1883.16	10885		5237 - 16532	(ug/kg)
Di-n-octylphthalate	19	19	1118.01	446.21	1118		QL - 2456	(ug/kg)
Benzo(b)fluoranthene	19	17	1699.67	454.38	1700		337 - 3062	(ug/kg)
Dibenzo(a,h)anthracene	19	19	1013.88	389.21	1014		QL - 2181	(ug/kg)
alpha-BHC	14	14	21.41	3.97	21.4		9.51 - 33.30	(ug/kg)
Heptachlor	14	14	79.93	17.12	79.9		28.58 - 131.3	(ug/kg)
Aldrin	14	14	66.89	14.77	66.9		22.61 - 111.18	(ug/kg)
4,4'-DDE	14	14	98.39	30.87	98.4		5.81 - 191.0	(ug/kg)
Dieldrin	14	14	6.64	3.45	6.2		QL - 17.0	(ug/kg)
Endrin	13	12	5.27	1.59	5.2		0.51 - 10.02	(ug/kg)
4,4'-DDD	14	14	18.09	5.32	18.1		2.13 - 34.04	(ug/kg)
4,4'-DDT	14	14	23.13	8.25	23.1		QL - 47.86	(ug/kg)

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