Mixed Analyte Performance Evaluation Program

Statistical Summary

Sample ID: MAPEP-00-S7

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Arsenic	28	28	8.73	6.60		False Positive		(mg/kg)
Barium	38	37	444.81	36.10	425.3		297.71 - 552.89	(mg/kg)
Beryllium	36	35	85.98	6.44	84.9		59.43 - 110.37	(mg/kg)
Cadmium	38	35	13.26	1.14	14.27		9.99 - 18.55	(mg/kg)
Chromium	40	30	26.99	4.05	27.1		18.97 - 35.23	(mg/kg)
Lead	40	37	64.83	5.24	61.3		42.91 - 79.69	(mg/kg)
Nickel	37	33	45.56	5.03	44.3		31.01 - 57.59	(mg/kg)
Selenium	33	22	7.77	1.02	7.46		5.22 - 9.70	(mg/kg)
Silver	1	1	42.63	3.94		Not Evaluated		(mg/kg)
Thallium	20	18	5.39	12.54		False Positive		(mg/kg)
Uranium-Total	8	6	6.29	0.84	7.53		5.27 - 9.79	(mg/kg)
Uranium-234	1	1						
Uranium-238	3	2			7.48		5.24 - 9.72	(mg/kg)
Vanadium	37	32	126.87	14.13	122.6		85.82 - 159.38	(mg/kg)
Zinc	39	37	78.51	10.15	80.3		56.21 - 104.39	(mg/kg)
Americium-241	42	39	57.38	5.54	61.1		42.77 - 79.43	(Bq/kg)
Cesium-134	51	46	976.72	111.47	1047		732.90 - 1361.10	(Bq/kg)
Cesium-137	54	53	921.65	91.57	930		651.00 - 1209.00	(Bq/kg)
Cobalt-57	52	48	948.25	111.44	949		664.30 - 1233.70	(Bq/kg)
Cobalt-60	52	51	1213.87	117.32	1180		826.00 - 1534.00	(Bq/kg)
Iron-55	7	3	876.06	788.05		False Positive		(Bq/kg)
Manganese-54	52	49	1077.90	105.80	1023		716.10 - 1329.90	(Bq/kg)
Nickel-63	12	10	849.69	91.87	960		672.00 - 1248.00	(Bq/kg)
Plutonium-238	32	21				False Positive		(Bq/kg)
Plutonium-239/240	40	35	72.23	5.53	74.4		52.08 - 96.72	(Bq/kg)
Potassium-40	52	49	700.83	72.54	652		456.40 - 847.60	(Bq/kg)
Strontium-90	29	26	286.09	32.94	304		212.80 - 395.20	(Bq/kg)
Uranium-234/233	39	33	83.77	8.14	90		63.00 - 117.00	(Bq/kg)
Uranium-235	8		4.18	2.28		Not Evaluated		(Bq/kg)
Uranium-238	40	34	85.72	8.04	93		65.10 - 120.90	(Bq/kg)
Zinc-65	51	48	1654.87	187.43	1540		1078.00 - 2002.00	(Bq/kg)
Phenol	20	20	589.30	189.21	589		21.87 - 1156.73	(ug/kg)
1,3-Dichlorobenzene	18	18	332.90	143.50	333		QL - 763.24	(ug/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.
1. For organic components with absoute value of Z-score < 3
2. Acceptance range minimum labeled as "DL" means from the Detection Limit to the upper range.

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Nitrobenzene	20	20	546.49	119.28	546		188.76 - 904.22	(ug/kg)
2-Nitrophenol	14	11	104.20	24.26	104		10.09 - 206.48	(ug/kg)
Naphthalene	19	18	517.32	85.61	517		260.58 - 774.07	(ug/kg)
2,6-Dichlorophenol	8	8	230.34	123.00	230		QL - 599.23	(ug/kg)
2-Nitroanaline	19	19	492.96	122.55	493		125.44 - 860.47	(ug/kg)
2,6-Dinitrotoluene	23	23	1571.74	350.01	1572		450.12 - 2695.98	(ug/kg)
2,4-Dinitrotoluene	21	20	708.38	184.91	708		153.85 - 1262.92	(ug/kg)
2,4-Dinitrophenol	13	13	629.48	249.56	629		QL - 1377.91	(ug/kg)
4-Nitrophenol	11	8	56.40	19.78	56.4		QL - 115.73	(ug/kg)
Diethylphthalate	22	22	1037.92	203.24	1038		428.40 - 1647.44	(ug/kg)
Anthracene	14	13	154.91	76.72	155		QL - 385.00	(ug/kg)
Pentachloronitrobenzene	6					Not Evaluated		(ug/kg)
Di-n-butylphthalate	5					Not Evaluated		(ug/kg)
Pyrene	22	21	444.46	123.66	444		73.61 - 815.31	(ug/kg)
Benzo(a)anthracene	22	21	594.38	153.24	594		134.82 - 1053.93	(ug/kg)
Bis(2-ethylhexyl)phthalate	21	21	5514.71	1981.86	5420	Not Added	QL - 11458.30	(ug/kg)

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