



TruePoint Exploration
#904 - 409 Granville St.
Vancouver BC V6C 1T2
Canada

ATTN: Debbie James

Report No.: A22-11786
Report Date: 27-Jan-23
Date Submitted: 15-Aug-22
Your Reference: CARMACKS COPPER

CERTIFICATE OF ANALYSIS

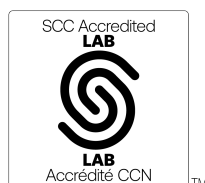
340 Soil samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
7-MIG	7-Mobile Ion Geochemistry	2022-09-19 16:35:16

REPORT A22-11786

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Notes:



LabID: 266

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CERTIFIED BY:

A handwritten signature in black ink, reading "Mark Vandergeest".

Mark Vandergeest
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839041	14.4	17.9	25.1	0.10	333	0.27	< 0.1	202	389	5.29	11.0	11.0	5	0.14	1990	1.44	1.03	0.58	9	5.3	2.10	0.05	0.52
3839042	24.0	31.3	16.0	0.29	916	0.68	< 0.1	98	331	14.6	55.6	15.1	35	1.01	1740	9.03	5.09	2.81	28	6.8	12.7	0.25	1.32
3839043	5.9	24.1	8.1	0.06	170	0.26	< 0.1	158	281	2.77	8.20	2.9	4	0.22	961	1.12	0.69	0.42	5	4.4	1.52	0.14	0.32
3839044	10.6	26.2	8.4	0.10	316	0.07	< 0.1	114	382	2.57	4.50	4.4	< 2	0.12	2910	0.42	0.30	0.18	4	6.1	0.62	< 0.05	0.11
3839045	4.4	25.1	4.4	< 0.05	192	0.13	< 0.1	104	283	1.50	4.02	1.7	< 2	0.41	1350	0.32	0.27	0.17	3	5.5	0.68	0.19	0.11
3839046	14.4	35.3	12.1	0.20	651	1.15	0.1	226	385	2.12	78.3	22.9	13	0.19	4030	16.2	10.5	4.63	26	6.3	20.1	0.65	1.07
3839047	32.1	199	58.0	0.51	1530	3.84	2.7	97	288	2.27	149	34.4	135	4.15	15200	7.12	3.89	2.91	130	60.1	13.8	4.21	3.65
3839048	15.5	102	24.4	1.24	841	1.67	0.3	68	256	2.18	60.5	22.2	64	2.41	30000	4.60	2.60	2.00	63	33.1	8.24	1.97	1.50
3839049	18.5	130	31.7	1.31	1680	2.63	0.1	129	482	2.06	34.5	15.0	59	4.57	1680	6.17	3.85	2.98	67	53.1	10.7	1.62	0.89
3839050	10.3	220	44.5	0.70	1610	3.80	0.4	91	362	1.38	49.1	31.1	117	4.93	3450	7.68	4.65	3.44	140	71.8	13.3	4.06	2.91
3839051	7.2	136	111	1.05	1810	2.46	0.6	59	399	17.4	109	34.5	181	10.5	1640	22.8	13.7	7.84	137	42.0	32.1	3.43	5.62
3839052	6.2	133	46.0	0.22	1200	1.28	0.4	105	318	3.56	90.9	32.2	147	4.73	1770	13.7	7.40	4.16	94	38.5	19.3	2.30	3.67
3839053	1.6	121	39.1	0.06	865	0.68	0.3	79	287	1.53	27.3	25.9	120	4.05	544	2.33	1.30	0.97	83	37.1	3.49	2.71	2.33
3839054	20.1	123	74.0	0.94	1590	1.99	0.4	123	410	6.06	68.4	31.4	181	7.66	2000	21.6	13.6	7.15	120	36.4	29.7	2.53	5.16
3839055	17.0	74.9	29.4	0.28	841	0.94	0.2	101	356	2.90	52.2	19.4	106	4.33	2470	9.23	5.41	2.79	71	18.7	12.4	1.13	2.19
3839056	4.6	27.5	12.5	0.10	399	0.44	< 0.1	101	299	0.90	12.7	6.7	32	1.14	501	1.93	1.09	0.56	25	7.9	2.33	0.73	0.77
3839057	9.2	18.0	21.5	0.12	407	0.51	0.1	282	412	17.4	19.1	8.0	20	0.59	763	3.35	2.05	0.94	18	3.8	4.41	0.07	0.52
3839058	36.1	52.3	45.1	0.73	950	1.18	0.2	173	446	4.70	35.2	19.3	73	3.13	2740	6.46	3.53	2.05	53	15.1	8.27	0.87	1.74
3839059	8.2	171	55.9	0.20	1290	2.93	0.6	96	269	1.00	97.7	38.4	190	5.24	1090	7.52	3.65	2.43	130	43.8	11.6	2.70	2.36
3839060	3.2	217	62.9	0.07	1430	3.63	0.7	56	293	0.87	68.0	42.8	245	6.20	796	4.72	2.38	1.65	160	53.5	7.18	3.90	3.11
3839061	4.6	346	121	0.07	2240	6.15	0.8	73	319	1.62	130	64.2	349	11.1	1130	10.0	4.90	3.37	224	80.8	14.7	5.44	6.43
3839062	3.9	392	71.3	0.16	2490	5.85	0.9	54	330	1.32	55.3	71.3	354	11.3	1240	3.92	2.05	1.90	242	91.5	6.07	6.21	4.98
3839063	10.0	73.9	42.9	0.28	1060	1.52	0.3	35	294	3.41	43.2	23.5	91	2.73	1470	7.13	4.15	2.18	64	20.2	9.90	1.38	2.24
3839064	1.8	232	54.4	0.06	1690	4.52	0.6	46	265	1.10	47.2	46.4	276	7.09	1320	3.66	2.00	1.51	170	61.1	5.33	4.84	4.91
3839065	3.6	428	129	0.12	2450	9.55	1.4	112	259	1.61	702	92.4	551	12.4	935	54.3	25.6	15.3	307	112	83.3	8.75	7.59
3839066	5.5	103	30.2	0.10	1270	1.93	0.4	65	297	0.85	69.8	33.9	109	2.21	1440	5.96	3.03	1.99	83	30.8	8.90	1.99	1.55
3839067	9.1	113	31.9	0.08	1260	2.01	0.4	44	298	1.09	27.3	26.3	107	2.54	1310	2.67	1.41	1.23	102	34.6	4.46	2.49	2.17
3839068	8.6	151	27.2	0.08	1670	2.73	0.5	58	272	2.01	73.6	40.1	132	3.64	841	6.42	3.08	2.41	119	41.7	9.73	3.37	3.23
3839069	10.8	162	47.0	0.12	2070	3.23	0.7	55	284	1.26	72.3	48.1	173	5.25	1530	6.49	3.10	2.38	132	47.9	9.80	3.68	2.49
3839070	7.6	165	27.1	0.06	1820	3.10	0.6	31	268	1.21	27.4	39.1	158	5.02	941	3.71	1.94	1.42	126	49.0	5.21	3.68	2.34
3839071	4.4	258	43.3	0.38	2300	5.17	0.9	66	252	2.48	132	88.8	220	7.36	1160	16.4	8.06	5.07	188	77.9	22.5	5.13	4.22
3839072	13.1	158	18.7	< 0.05	1430	3.14	0.5	42	234	1.90	81.3	49.2	100	2.93	425	6.32	2.80	2.11	107	56.9	9.14	3.70	3.20
3839073	12.7	191	49.1	0.10	1250	3.46	0.6	61	231	1.71	335	55.6	154	4.25	785	15.7	6.25	6.44	113	48.2	31.0	2.39	2.86
3839074	33.6	272	53.4	0.18	1610	6.73	0.7	87	224	2.16	179	72.5	147	3.34	1040	11.0	4.88	3.68	156	83.8	15.7	4.47	4.09
3839075	9.5	267	49.4	0.05	1870	9.21	1.1	105	195	1.35	986	156	192	5.48	927	42.3	16.8	17.6	185	69.4	82.0	2.76	5.03
3839076	1.0	188	38.5	< 0.05	1940	3.40	0.9	82	222	1.61	59.6	77.6	161	5.13	752	12.3	5.83	3.96	143	63.1	15.0	3.73	3.29
3839077	0.6	89.2	20.1	< 0.05	794	1.43	0.4	42	200	1.21	172	66.4	67	2.22	382	10.5	4.25	3.85	63	25.5	17.1	1.01	1.41
3839078	7.7	238	42.1	0.06	1730	5.41	1.0	92	222	2.04	436	89.4	174	7.25	782	24.8	9.98	9.76	192	73.5	43.1	4.42	4.62
3839079	6.3	164	40.5	0.07	1610	3.26	0.8	54	252	1.80	104	63.9	162	4.78	3570	12.3	5.94	4.03	130	53.6	16.2	3.43	3.37
3839080	2.7	221	62.1	0.10	1680	3.82	2.0	56	248	2.13	81.7	78.0	211	6.91	6930	8.52	3.89	2.55	154	55.1	10.5	3.73	3.05
3839081	10.3	254	87.4	0.13	2100	4.47	2.2	76	239	1.70	142	99.3	273	7.32	4130	13.7	6.66	4.16	175	63.2	18.9	4.25	3.71
3839082	9.1	163	24.5	0.06	1360	3.46	0.7	100	215	1.65	461	78.4	107	4.05	1290	33.9	14.8	14.0	123	56.1	60.9	2.59	3.70
3839083	4.3	177	47.2	0.11	1980	3.99	0.7	98	241	1.96	299	103	160	4.40	1100	22.3	9.88	8.37	122	40.5	34.3	1.16	4.35
3839084	3.7	146	27.9	< 0.05	1790	2.57	0.6	87	241	1.22	193	72.9	129	3.48	660	19.1	8.46	7.25	113	40.0	28.9	1.93	2.99
3839085	7.1	125	14.4	< 0.05	1390	3.34	0.5	50	211	2.08	190	109	72	2.32	820	13.1	5.04	5.21	84	45.6	22.1	1.46	3.36
3839086	3.8	245	34.8	0.07	2350	3.53	0.7	68	226	1.04	183	59.3	100	4.50	1450	17.5	8.03	7.59	168	80.2	27.8	4.32	3.27
3839087	43.4	184	26.5	0.82	1270	5.21	1.6	49	110	1.28	299	119	72	2.32	9430	13.6	6.03	4.82	114	52.7	24.3	2.07	2.86
3839088	19.0	186	26.5	0.21	2460	2.50	0.6	36	213	0.63	47.6	42.5	114	2.96	3050	4.94	2.28	2.37	108	58.3	7.58	3.17	2.13
3839089	18.6	246	38.0	0.22	2140	3.16	1.0	40	216	0.76	119	75.8	209	6.32	2860	9.08	3.56	3.85	180	84.7	15.4	5.03	2.70
3839090	9.7	159	19.5	0.06	1880	4.40	1.1	81	184	0.66	538	163	197	3.06	2370	39.6	18.5	16.5	128	43.9	68.9	0.47	2.70

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839091	11.3	207	19.5	< 0.05	1950	3.50	0.6	50	183	0.55	237	59.8	104	4.58	1330	18.0	7.47	7.29	148	73.2	30.0	1.99	2.75
3839092	6.1	109	18.7	< 0.05	1060	1.62	0.4	36	194	0.60	149	41.0	69	2.26	702	11.2	4.63	4.89	83	36.6	20.0	1.32	1.62
3839093	10.3	203	19.1	< 0.05	1270	3.16	0.3	26	228	2.58	35.9	29.8	61	3.26	566	2.65	1.32	1.01	104	69.8	3.62	2.81	2.93
3839094	5.2	296	27.9	0.05	2670	5.29	0.7	84	210	1.93	293	89.7	138	4.52	1070	23.1	9.94	9.13	190	102	36.2	4.71	5.06
3839095	22.6	180	22.2	0.55	1580	3.57	0.6	80	185	1.25	311	108	143	2.83	5080	29.5	13.5	10.9	136	66.2	43.8	2.91	3.29
3839096	9.7	269	20.8	0.07	3540	4.93	0.3	103	298	1.22	47.1	39.2	119	4.71	1400	8.25	3.98	3.04	177	87.0	11.1	4.51	4.03
3839097	7.7	388	38.0	0.08	5460	7.77	0.6	146	287	1.55	96.2	51.2	214	5.64	1390	15.1	7.39	5.25	231	130	19.2	6.40	6.09
3839098	7.5	185	25.1	< 0.05	3130	3.28	0.3	146	283	1.17	42.4	25.2	108	2.65	786	4.52	2.13	1.85	118	62.9	5.90	3.02	2.78
3839099	11.4	354	37.1	0.07	3660	7.66	0.5	129	315	1.33	57.0	55.0	209	5.50	926	9.33	4.41	3.26	239	124	11.4	6.16	5.31
3839100	3.3	467	50.5	0.07	4710	11.5	0.6	220	254	1.14	208	104	163	7.12	1430	53.9	24.7	16.8	383	191	67.5	6.69	9.09
3839101	1.0	9.4	2.4	< 0.05	908	< 0.07	0.2	12	77	0.36	19.2	2.5	< 2	0.40	191	1.13	0.38	0.59	4	5.4	1.98	0.07	0.28
3839102	4.3	19.5	3.7	< 0.05	465	0.43	0.1	31	137	2.01	51.5	12.7	5	0.68	407	3.40	1.51	1.39	10	14.4	5.57	< 0.05	0.83
3839103	12.8	4.9	4.5	< 0.05	210	< 0.07	< 0.1	11	213	6.27	7.01	7.0	< 2	0.19	1270	0.53	0.29	0.25	6	5.2	0.85	0.18	0.23
3839104	4.2	42.7	9.3	< 0.05	491	0.64	0.3	21	152	0.93	36.8	13.5	34	1.53	843	2.42	1.08	1.06	32	18.0	3.91	0.81	1.44
3839105	1.8	197	78.4	0.22	2160	3.82	0.8	46	257	1.58	54.2	63.6	327	7.40	911	3.65	1.96	1.28	193	54.1	5.06	3.56	5.66
3839106	2.9	199	44.9	0.05	1760	2.71	0.7	36	268	2.10	25.8	51.8	267	8.20	831	2.49	1.49	0.91	182	59.3	3.30	4.64	3.96
3839107	8.3	140	40.6	0.22	1950	2.94	0.6	99	303	1.41	114	43.7	208	5.48	1300	11.7	5.01	3.43	142	45.0	16.2	2.77	3.73
3839108	2.6	131	48.0	0.46	1610	3.16	0.5	92	241	1.41	139	26.9	185	4.15	771	20.4	8.38	5.43	105	36.2	23.6	1.86	5.19
3839109	10.5	93.8	42.7	0.55	1320	2.01	0.4	171	328	1.04	35.4	26.5	136	3.95	982	7.06	3.70	2.00	85	27.6	8.62	1.49	3.03
3839110	4.2	15.4	3.8	< 0.05	170	0.12	< 0.1	38	177	1.87	7.29	2.6	3	0.49	520	0.73	0.41	0.24	5	6.4	0.95	< 0.05	0.37
3839111	23.6	22.7	14.9	0.39	818	0.68	0.2	234	411	5.60	50.2	19.2	43	0.87	2050	8.77	4.49	2.09	28	4.9	10.5	< 0.05	1.48
3839112	6.8	45.2	18.6	0.10	636	0.76	0.2	106	294	2.54	23.8	14.7	64	2.29	396	3.29	1.70	0.91	46	14.1	3.85	1.12	1.73
3839113	22.7	69.8	22.2	0.33	1060	1.48	0.2	98	335	9.79	60.5	18.9	95	3.06	1420	12.0	6.65	3.37	64	21.7	14.7	1.22	2.56
3839114	25.9	101	33.0	0.51	1650	2.02	0.4	103	352	2.51	47.3	25.0	155	4.74	1760	7.87	4.28	2.60	99	34.3	11.7	2.16	2.82
3839115	9.7	61.3	25.2	0.71	1150	1.38	0.3	93	312	1.13	59.1	19.8	99	2.38	1030	12.2	6.37	3.61	65	19.5	16.9	1.06	2.45
3839116	7.2	66.4	31.0	0.11	850	0.88	0.3	71	247	1.24	53.9	27.1	95	1.87	746	4.41	2.14	1.39	66	22.4	6.58	1.23	1.72
3839117	6.8	187	54.3	0.28	1770	3.51	0.6	85	276	1.69	269	68.1	248	6.90	1190	21.5	10.3	6.43	143	49.6	33.0	3.02	5.50
3839118	9.0	74.1	29.2	0.52	736	0.85	0.3	72	327	1.15	20.4	27.9	83	3.02	505	0.98	0.73	0.38	59	32.6	1.52	2.10	1.57
3839119	2.8	105	34.4	0.09	1050	2.29	0.3	46	206	1.08	69.2	45.4	132	3.48	451	4.74	2.59	1.57	79	29.2	7.36	2.26	2.80
3839120	14.4	112	50.5	0.63	1310	2.68	0.4	106	296	4.83	152	32.8	153	5.87	1330	30.1	16.2	8.88	103	33.2	38.8	1.66	4.82
3839121	15.1	104	46.5	1.97	1720	2.88	0.4	150	346	1.71	99.4	22.5	175	4.87	1390	70.4	38.0	19.9	99	30.4	90.3	0.65	5.24
3839122	21.2	90.4	46.8	1.37	1460	2.62	0.3	113	355	1.14	36.6	19.9	151	5.05	1020	16.7	9.49	5.01	95	30.1	21.7	1.42	3.61
3839123	36.0	28.0	16.4	0.52	857	0.71	0.1	138	381	6.54	59.5	14.3	39	1.17	2440	10.8	5.91	3.22	29	6.4	14.5	0.40	1.16
3839124	16.7	14.7	9.9	0.17	873	0.42	0.2	57	368	29.1	54.8	6.7	17	0.45	1430	7.18	3.94	1.84	18	2.9	8.96	0.23	0.66
3839125	22.7	26.2	14.7	0.29	497	0.53	< 0.1	145	391	6.28	26.5	12.2	27	1.28	1840	4.27	2.28	1.26	22	6.9	5.30	0.34	0.99
3839126	17.1	75.2	37.8	0.63	1280	1.58	0.3	92	394	6.88	48.9	28.4	109	4.21	1370	10.4	5.82	3.08	81	25.9	12.6	2.03	3.21
3839127	6.4	28.8	9.5	0.06	605	0.47	0.2	38	174	2.06	19.2	8.1	34	1.02	1060	2.26	1.36	0.85	26	9.5	3.02	0.37	1.18
3839128	7.5	418	117	0.15	2980	8.90	1.3	93	368	2.22	248	97.5	562	15.6	2230	15.8	7.35	4.54	352	121	20.5	9.47	12.8
3839129	6.2	392	93.4	0.13	3130	7.99	1.7	85	312	1.94	270	98.5	590	13.3	1160	19.1	8.15	5.31	356	116	25.7	10.4	8.87
3839130	12.6	580	148	0.18	3540	13.2	2.4	78	341	2.09	351	129	915	21.5	1240	23.9	10.1	6.33	493	173	30.8	14.6	14.7
3839131	5.4	394	69.7	0.07	2830	9.33	1.2	83	273	1.31	176	76.6	462	10.5	1330	10.2	4.91	3.30	286	106	14.0	6.60	7.11
3839132	9.0	335	76.1	0.07	2330	5.85	1.1	74	255	1.66	111	83.9	464	10.9	832	8.94	4.53	3.21	271	94.4	12.2	6.88	7.29
3839133	9.5	157	25.2	0.11	2040	3.02	0.8	48	291	1.16	46.8	38.5	179	4.47	1170	8.02	3.81	2.42	143	59.8	9.87	4.50	2.95
3839134	4.8	29.9	7.7	< 0.05	497	0.34	0.3	12	105	0.97	76.3	20.7	19	1.05	416	3.65	1.60	1.80	22	14.2	7.13	0.39	1.09
3839135	2.1	14.1	2.6	< 0.05	1950	< 0.07	0.2	14	79	0.62	42.3	2.6	2	0.77	183	1.67	0.71	1.00	5	7.2	3.35	< 0.05	0.50
3839136	12.3	173	38.1	0.34	2180	3.24	0.6	84	229	1.36	176	49.6	212	6.14	4360	17.1	9.00	5.63	145	54.5	24.7	3.06	4.30
3839137	5.3	242	64.4	0.07	2360	3.57	0.9	71	248	1.61	71.3	81.4	309	8.40	677	5.61	2.73	2.29	195	68.3	7.95	5.53	4.97
3839138	3.9	240	61.7	0.06	1910	4.00	0.8	64	233	1.55	108	91.6	262	6.71	632	10.6	5.08	3.89	166	67.7	14.8	4.96	4.67
3839139	6.8	215	38.7	0.10	1600	4.76	0.8	71	208	1.85	210	84.3	194	6.08	1060	19.6	9.85	7.88	156	62.4	30.3	3.48	4.80
3839140	3.7	240	51.9	0.07	1510	4.57	0.8	43	221	1.84	129	77.0	263	6.32	916	12.6	6.36	4.49	160	63.7	17.5	3.85	4.31

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839141	7.4	234	56.4	0.20	2890	6.25	0.8	117	222	1.12	145	83.4	253	6.86	1130	15.3	6.52	4.27	171	66.1	17.4	4.52	4.68
3839142	7.5	163	43.3	0.15	1670	4.27	0.7	161	228	1.25	376	75.7	185	4.60	1030	47.2	17.4	13.5	128	45.8	63.8	1.72	3.44
3839143	7.9	231	36.7	0.14	3080	4.79	0.9	45	260	1.26	47.0	59.8	241	7.30	907	6.99	3.30	2.55	176	69.1	8.57	4.74	5.12
3839144	5.9	162	41.5	0.11	1910	4.79	0.9	62	229	0.76	416	114	231	6.05	1060	38.9	15.3	10.3	140	46.1	52.0	2.13	4.58
3839145	9.5	62.0	20.8	0.13	1390	1.25	0.3	90	217	0.71	74.7	46.7	77	1.92	635	13.4	6.18	3.85	55	19.4	16.3	0.57	1.53
3839146	3.7	17.5	10.3	0.09	477	0.32	0.1	68	219	0.44	32.7	21.8	20	0.43	633	2.99	1.32	1.06	16	5.2	4.64	0.47	0.62
3839147	9.0	166	28.9	< 0.05	2020	2.84	0.8	64	240	1.55	198	69.9	171	4.72	797	11.5	4.75	5.03	134	49.9	21.0	2.49	3.51
3839148	14.1	76.7	19.2	0.17	1210	1.49	0.4	88	320	0.79	27.4	34.2	79	1.78	1460	2.75	1.41	1.12	62	24.4	4.07	2.11	1.62
3839149	15.1	137	24.7	0.06	1280	2.17	0.7	58	235	1.20	370	52.2	121	2.52	1050	22.2	9.21	10.1	105	35.2	40.2	< 0.05	2.79
3839150	14.8	144	23.0	0.12	1460	2.36	0.6	71	247	0.84	201	45.3	122	2.30	1020	10.9	4.25	4.41	104	40.2	18.9	2.67	3.12
3839151	22.3	262	27.0	0.07	2500	6.56	1.3	107	223	1.49	515	173	222	4.64	1630	22.9	8.86	10.4	205	97.4	44.4	4.75	4.89
3839152	14.6	185	42.9	0.09	1710	3.37	0.7	113	282	1.34	55.1	79.9	183	4.38	1900	6.78	3.12	2.43	138	60.9	8.33	3.99	3.41
3839153	12.8	267	32.1	0.06	1510	13.4	1.1	125	161	1.53	912	119	145	5.10	1700	44.4	19.6	18.1	212	86.1	79.6	0.91	7.06
3839154	67.5	261	31.6	0.39	3470	6.93	2.1	74	196	1.58	262	178	445	7.12	8250	25.7	12.3	10.0	242	96.3	38.8	5.01	5.41
3839155	12.6	429	50.5	0.44	2570	8.04	1.1	107	242	0.95	98.8	102	227	6.81	2620	13.8	7.02	4.74	261	152	17.6	8.92	5.41
3839156	3.9	274	21.6	0.08	1960	5.35	0.6	161	176	0.73	306	103	99	3.80	2500	35.1	17.5	12.9	167	104	49.2	2.84	4.54
3839157	6.9	105	11.1	0.08	768	1.86	0.3	75	157	1.01	216	57.9	64	1.72	1550	22.1	10.4	7.75	74	37.9	31.1	0.24	2.06
3839158	7.8	274	40.0	0.10	1750	4.67	0.4	94	248	0.74	37.9	52.2	107	3.60	1440	3.71	1.71	1.46	151	98.5	5.73	4.76	2.83
3839159	23.0	197	16.4	0.13	1350	3.65	0.6	66	148	0.96	273	61.8	127	3.20	2010	18.0	8.03	7.44	139	69.8	29.9	2.88	3.16
3839160	9.3	513	24.2	0.07	6650	12.7	0.8	166	308	1.74	343	83.5	270	6.65	1220	68.6	31.6	20.2	290	185	82.4	6.22	7.75
3839161	11.4	347	12.9	0.06	4430	8.45	0.4	107	283	1.39	97.8	55.0	106	3.78	1880	19.1	8.48	6.11	202	131	23.5	4.64	4.17
3839162	3.4	419	34.0	0.06	3110	9.86	0.7	108	198	0.94	265	130	278	8.10	1700	43.2	18.6	12.2	309	154	48.1	6.74	6.61
3839163	10.1	280	40.2	0.05	2800	7.34	0.8	63	227	0.67	50.1	58.8	218	5.98	1020	7.54	3.48	2.39	224	97.2	8.73	5.68	4.39
3839164	7.9	247	22.7	< 0.05	3140	5.61	0.7	66	210	0.69	42.9	58.9	160	4.99	1070	11.9	5.54	3.95	203	99.0	14.3	5.33	3.87
3839165	14.9	391	31.6	0.07	4580	8.67	0.9	96	270	1.51	60.4	81.4	246	8.24	1380	8.15	3.87	2.94	293	153	9.99	7.59	6.75
3839166	4.7	172	11.8	< 0.05	2780	3.71	0.3	81	190	0.75	15.0	37.3	77	3.50	691	4.69	2.19	1.76	133	72.3	5.83	2.81	2.26
3839167	2.1	215	17.4	< 0.05	2250	2.40	0.2	31	200	0.62	39.2	36.1	63	3.08	1410	6.73	3.43	3.17	124	82.5	11.9	2.93	2.15
3839168	5.0	102	16.5	< 0.05	1690	1.01	0.2	37	254	0.85	20.9	19.6	52	1.35	605	3.72	2.07	1.91	72	41.4	6.59	1.86	1.33
3839169	8.0	128	16.0	< 0.05	2080	1.48	0.3	67	213	0.89	74.6	37.5	78	2.24	1170	9.60	4.69	4.76	90	44.1	19.5	1.94	2.10
3839170	3.4	358	46.3	< 0.05	3770	4.47	0.5	74	236	1.00	75.2	87.4	241	4.82	1490	14.6	8.22	5.75	218	123	21.9	6.20	4.02
3839201	5.9	223	17.8	0.14	2960	2.11	0.3	78	234	0.67	61.4	42.5	89	3.49	1570	10.4	4.83	4.77	123	69.8	18.0	3.71	2.13
3839202	3.4	523	29.9	0.06	6020	6.29	0.6	76	225	1.03	168	144	178	9.78	1410	23.3	12.2	9.70	315	178	39.9	5.83	5.19
3839203	7.8	287	19.3	0.05	2640	2.99	0.4	39	212	0.92	58.8	60.4	216	3.53	1240	8.49	4.20	3.57	188	106	14.0	3.84	2.54
3839204	2.6	145	10.7	< 0.05	1180	1.57	0.3	20	167	1.05	160	76.4	295	1.38	473	7.54	3.21	3.14	96	54.1	15.8	2.09	2.20
3839205	29.3	248	20.8	< 0.05	3300	2.81	0.4	43	253	1.09	42.0	52.2	191	4.23	2830	9.31	5.40	4.38	158	95.3	15.5	4.47	3.20
3839206	335	516	67.8	0.08	6310	5.49	1.1	136	353	1.22	70.2	96.7	498	9.23	5270	7.88	4.19	3.67	341	158	12.5	7.44	6.29
3839207	13.2	343	52.2	0.06	5180	4.42	0.7	58	303	1.84	113	160	478	9.02	1990	10.7	5.55	4.09	274	95.9	17.7	5.32	6.91
3839208	9.6	514	106	0.06	5780	8.34	1.3	95	218	1.11	390	139	564	13.4	2000	43.6	23.1	17.7	368	137	76.2	6.54	7.70
3839209	5.3	283	25.5	< 0.05	2240	2.97	0.5	29	228	1.21	82.8	85.6	170	4.65	453	5.38	2.52	2.22	196	99.7	9.71	4.57	3.37
3839210	3.5	116	24.0	0.19	1910	1.35	0.3	44	231	0.74	30.6	43.3	108	2.67	1250	3.85	2.03	1.58	99	39.0	6.61	1.83	1.67
3839211	5.1	213	36.2	< 0.05	2780	2.59	0.5	60	213	1.09	171	96.5	176	4.67	1210	19.6	10.3	9.13	145	61.3	37.5	2.36	3.10
3839212	13.3	162	39.0	< 0.05	1730	2.08	0.5	52	240	0.80	73.9	59.0	160	3.84	1010	5.82	3.15	2.74	116	46.4	11.1	2.50	2.41
3839213	21.8	502	123	0.37	3280	6.64	1.4	66	253	1.49	295	137	496	11.8	1410	20.3	10.8	9.35	344	133	41.8	6.55	5.07
3839214	8.0	345	42.6	< 0.05	2190	3.93	0.5	54	257	0.95	64.0	55.8	184	5.38	1390	7.05	3.79	2.74	184	111	11.4	4.28	3.27
3839215	14.7	194	23.1	< 0.05	1930	2.37	0.4	45	223	1.06	28.8	37.7	119	3.45	1660	6.45	3.57	2.82	127	69.7	9.92	2.87	1.85
3839216	20.3	353	63.8	0.38	4040	7.66	0.6	108	230	1.77	98.6	75.2	247	9.26	13000	35.6	20.6	16.3	216	124	63.7	5.51	4.20
3839217	6.0	383	42.6	< 0.05	6270	4.36	0.7	96	230	1.83	101	128	206	9.94	1840	12.7	7.72	5.87	295	149	22.2	5.58	3.83
3839218	8.4	276	45.5	< 0.05	5330	2.20	0.4	52	247	0.89	43.0	62.7	145	3.61	897	5.29	2.90	2.79	176	100.0	9.38	3.68	2.14
3839219	4.1	296	35.4	< 0.05	2840	3.74	0.6	92	200	1.31	563	148	149	3.47	1640	30.6	15.1	14.1	184	88.1	65.3	2.92	4.48
3839220	4.2	228	18.2	< 0.05	2230	2.54	0.4	57	226	1.33	99.4	47.9	96	2.60	1280	8.33	3.96	3.41	141	80.9	14.8	3.00	2.88

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839221	5.0	349	29.4	< 0.05	3730	3.25	0.5	65	250	1.52	73.5	73.4	185	4.75	1200	5.95	3.30	2.71	220	122	11.2	5.50	3.84
3839222	4.7	152	27.6	< 0.05	3120	1.91	0.4	80	282	1.34	117	63.1	117	2.39	980	11.2	5.33	5.31	125	53.1	20.1	2.26	3.07
3839223	3.6	322	36.2	< 0.05	2810	3.84	0.7	35	231	1.08	153	70.2	153	3.55	477	7.87	4.01	3.55	196	107	16.5	4.12	3.62
3839224	2.5	243	21.1	< 0.05	2930	3.82	0.5	34	192	1.47	443	136	72	2.22	620	14.6	6.41	6.96	124	91.6	38.7	2.19	3.91
3839225	2.9	376	93.1	0.05	4380	5.35	1.1	197	251	1.58	254	131	358	7.35	1710	19.8	10.6	8.61	270	118	37.3	4.60	6.27
3839226	3.0	227	52.5	< 0.05	4050	2.89	0.8	54	249	1.07	125	81.7	209	5.18	1450	11.1	6.29	5.66	165	68.9	21.1	3.15	3.51
3839227	3.5	291	39.9	< 0.05	3670	6.98	1.0	37	184	1.84	256	347	233	7.42	570	12.2	6.76	4.82	213	97.2	24.1	3.33	5.57
3839228	2.6	252	52.4	< 0.05	2440	3.67	0.7	67	224	1.04	183	86.7	241	6.62	744	19.5	10.6	8.83	171	68.7	35.2	1.63	4.10
3839229	2.9	420	65.6	< 0.05	3600	8.16	1.0	76	214	1.02	652	132	373	12.7	862	34.9	16.7	15.3	298	131	72.8	2.50	6.29
3839230	7.7	269	82.8	0.16	2850	5.11	0.8	44	267	1.15	265	108	333	9.45	1250	19.6	9.56	5.99	191	75.4	32.5	3.64	5.34
3839231	5.1	176	34.0	0.06	1850	3.24	0.6	97	238	1.41	535	132	190	4.55	1230	43.6	23.1	14.0	134	48.7	75.7	0.09	3.79
3839232	158	234	51.5	0.09	3100	3.86	0.8	116	241	1.65	780	196	284	6.34	980	54.9	27.3	16.5	194	69.3	94.7	0.93	4.79
3839233	3.9	131	40.0	0.26	1870	3.02	0.5	82	237	1.65	927	121	208	4.27	896	53.3	24.5	15.5	115	32.5	96.6	< 0.05	4.04
3839234	3.9	85.5	31.0	0.13	1460	1.39	0.3	40	231	1.19	47.2	33.1	113	2.53	976	4.78	2.73	1.68	78	26.1	7.22	1.07	2.34
3839235	2.0	167	43.5	< 0.05	1630	3.23	0.5	61	212	1.42	320	114	165	4.11	604	16.1	8.17	6.32	136	46.4	31.5	0.97	3.50
3839236	5.3	169	37.4	< 0.05	1600	4.08	0.5	36	177	3.34	83.4	81.7	166	5.91	376	6.96	3.86	2.30	146	57.1	10.5	2.40	3.94
3839237	13.3	127	31.5	0.07	1770	3.28	0.5	60	236	3.59	158	59.1	98	3.17	996	11.9	6.47	4.28	99	43.0	20.1	1.37	3.05
3839238	13.3	156	46.9	0.74	1410	2.59	0.4	27	209	0.91	101	93.6	184	3.68	7100	17.2	10.1	5.36	108	43.2	27.9	1.99	2.71
3839239	38.8	92.8	37.6	4.37	1410	2.15	0.4	81	211	1.90	173	64.2	123	3.55	25300	21.7	10.8	6.49	65	26.0	30.3	0.39	2.83
3839240	160	105	36.5	19.3	1070	5.81	0.5	68	169	3.17	399	26.2	77	2.51	9100	26.7	10.9	8.47	59	29.2	37.6	0.27	1.96
3839241	6.1	45.5	22.9	0.08	492	1.57	0.3	35	174	0.74	165	64.1	38	1.14	328	8.69	3.98	2.95	34	12.1	14.4	< 0.05	1.35
3839242	5.3	173	61.3	0.11	2160	5.27	0.9	213	236	1.47	1530	168	246	6.26	1990	216	105	55.3	137	42.8	272	< 0.05	4.28
3839243	4.2	119	43.1	0.06	1370	2.94	0.5	71	242	0.93	328	113	160	4.83	809	26.2	12.1	8.70	89	35.8	37.9	1.06	3.17
3839244	8.8	150	36.2	0.11	2100	4.30	0.8	110	246	1.88	652	137	191	5.07	1100	51.0	21.8	15.1	119	51.6	74.6	1.69	3.64
3839245	1.2	270	70.2	0.06	3170	7.55	1.1	197	257	1.18	446	208	351	7.93	925	24.9	11.3	7.74	206	86.5	37.3	3.97	6.88
3839246	1.6	217	95.5	0.13	2450	5.54	0.9	42	262	1.15	443	171	335	7.06	925	14.1	5.79	4.75	172	72.0	25.4	3.56	6.19
3839247	3.6	268	75.0	< 0.05	2870	5.23	0.8	48	266	1.18	162	134	266	8.38	752	13.8	6.19	5.19	201	94.6	20.9	4.57	4.12
3839248	3.8	125	35.1	0.05	1570	2.52	0.6	122	238	1.57	156	99.3	159	3.21	765	16.7	8.16	5.12	99	43.1	21.9	2.36	3.08
3839249	3.2	256	77.0	0.05	2560	5.20	1.4	63	250	1.50	141	94.0	314	9.58	597	13.8	6.68	4.62	184	86.1	18.8	4.94	4.38
3839250	2.9	116	45.0	< 0.05	1570	1.91	0.5	56	272	1.01	24.5	42.1	135	3.69	1350	2.69	1.44	1.17	85	40.3	3.48	2.13	2.11
3839251	33.4	87.9	22.8	3.94	1750	1.50	1.0	61	188	1.66	61.1	39.4	211	2.02	35700	11.2	5.35	4.22	74	40.2	15.2	1.63	1.81
3839252	11.5	150	23.4	< 0.05	1610	2.77	0.7	30	232	2.72	79.9	61.5	195	3.30	1080	5.94	2.99	2.30	124	62.8	8.49	4.27	3.56
3839253	6.7	198	20.3	< 0.05	2240	3.71	0.7	43	234	1.63	191	79.1	163	5.07	835	17.3	7.93	6.94	153	82.4	27.9	4.28	3.61
3839254	7.9	218	21.7	< 0.05	3320	4.62	0.7	43	225	1.21	79.0	85.8	178	5.22	1510	13.1	6.74	5.59	185	98.2	18.7	4.74	3.53
3839255	6.3	124	23.1	0.05	2060	2.69	0.5	54	246	0.99	21.4	37.2	129	3.37	2860	3.72	2.08	1.76	104	50.7	5.44	2.61	2.23
3839256	5.9	219	38.9	< 0.05	2520	4.83	0.8	33	236	0.94	47.0	76.3	211	6.45	495	6.46	3.48	2.44	187	85.9	8.41	4.74	3.52
3839257	4.8	194	36.3	< 0.05	2540	4.07	0.7	24	267	0.93	44.6	67.2	201	4.73	863	5.74	3.14	2.62	173	78.5	8.97	4.88	3.62
3839258	6.6	172	14.7	0.15	1880	3.03	0.5	35	184	0.81	288	125	100	4.25	1350	17.0	8.18	7.63	165	79.1	31.2	2.74	2.74
3839259	5.8	143	34.4	< 0.05	1990	2.61	0.4	56	221	0.78	153	46.0	113	3.80	1070	10.8	4.94	5.21	105	57.7	20.4	2.46	2.70
3839261	28.7	170	30.9	0.10	2420	2.89	0.9	42	238	2.54	56.8	53.6	149	3.01	2780	6.21	3.26	2.50	123	72.1	8.95	4.24	3.14
3839262	4.2	267	22.2	< 0.05	2890	5.83	0.3	57	233	1.00	58.9	49.4	125	5.59	776	12.9	6.12	4.22	216	114	15.0	4.29	3.98
3839263	2.5	245	28.8	< 0.05	3170	5.45	0.4	39	257	1.16	35.5	54.1	115	6.22	1080	4.60	2.40	2.10	181	109	6.64	4.67	3.82
3839264	10.8	185	20.3	< 0.05	3170	3.86	0.3	70	241	0.60	19.5	39.8	119	5.03	877	3.19	1.71	1.48	145	86.4	4.53	4.16	2.55
3839265	6.0	181	19.4	< 0.05	3000	3.42	0.5	44	206	1.34	160	55.4	118	3.80	602	13.3	6.84	5.30	121	66.0	21.7	2.94	2.98
3839266	5.0	230	37.1	< 0.05	3230	5.30	0.4	96	199	1.48	206	72.8	130	3.16	937	25.2	12.4	8.52	128	95.4	35.5	4.14	4.48
3839267	2.8	317	27.7	< 0.05	4650	5.15	0.3	81	190	0.93	88.0	52.8	122	4.05	918	12.5	6.92	4.92	143	134	18.1	5.66	3.48
3839268	6.5	176	19.2	< 0.05	2860	3.22	0.3	49	219	1.06	66.5	35.1	66	2.88	567	6.66	3.19	3.02	97	81.3	11.1	3.46	2.34
3839269	13.8	147	20.7	0.06	3670	2.93	0.3	69	190	0.92	30.4	34.9	82	3.11	2780	5.13	2.84	2.34	96	68.0	7.36	6.32	2.25
3839270	5.4	194	23.1	0.07	3620	4.53	0.6	100	185	1.26	285	73.8	147	3.84	1140	22.5	11.3	8.75	127	87.2	35.4	2.97	4.29
3839271	4.3	262	21.5	< 0.05	2170	5.74	0.4	67	231	1.13	115	56.8	183	5.45	413	8.38	4.08	3.11	204	113	11.8	5.66	4.91

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839272	4.2	516	44.5	< 0.05	4890	11.5	0.9	96	213	1.57	240	107	268	11.0	926	27.0	14.4	9.09	401	220	36.8	8.81	7.56
3839273	3.4	192	22.4	< 0.05	1920	4.84	0.4	44	214	0.63	51.7	46.7	117	4.55	738	6.87	3.71	2.65	151	87.6	10.0	3.92	3.32
3839274	3.5	268	21.4	< 0.05	2530	6.18	0.4	16	238	1.09	51.1	55.8	101	5.94	890	5.32	2.60	2.32	195	123	7.84	5.26	4.08
3839275	8.3	140	18.1	< 0.05	1580	2.86	0.3	33	252	1.15	20.4	39.9	87	2.95	922	3.83	1.94	1.52	102	64.3	5.38	2.95	1.97
3839276	5.4	154	25.3	< 0.05	2190	3.93	0.5	57	202	0.87	40.6	51.2	134	3.49	885	9.16	4.40	3.60	126	68.0	13.5	3.18	2.97
3839277	4.4	95.6	17.6	< 0.05	1180	1.82	0.2	25	227	0.71	23.1	25.0	44	2.26	989	4.54	2.21	2.05	71	51.2	7.03	1.93	1.69
3839278	3.4	153	28.8	< 0.05	1570	2.91	0.5	35	207	0.88	17.8	37.6	110	3.39	1070	2.47	1.34	1.16	121	66.2	3.66	3.19	2.47
3839279	10.7	215	41.3	< 0.05	2120	4.15	0.7	24	225	1.39	31.3	50.9	183	4.23	862	8.44	4.23	3.62	159	91.1	12.8	4.36	3.60
3839280	6.7	80.7	29.0	< 0.05	1190	1.54	0.4	25	256	0.79	14.7	26.6	83	2.21	1430	2.87	1.61	1.32	64	32.8	4.43	1.61	1.77
3839281	5.6	142	14.6	< 0.05	1890	2.87	0.6	44	188	1.71	410	53.6	93	3.45	619	18.8	7.96	7.54	109	59.1	36.1	0.88	2.71
3839282	12.7	221	15.3	< 0.05	2700	3.84	0.5	38	243	1.74	57.2	65.4	112	3.79	974	10.7	5.06	3.82	144	81.6	14.0	4.30	3.04
3839283	8.9	203	25.6	< 0.05	1770	3.17	2.4	60	208	1.30	298	80.2	132	2.46	1260	16.2	6.41	6.35	142	72.2	27.4	2.82	2.89
3839284	28.7	176	22.1	0.18	2120	2.45	1.1	61	260	1.51	116	60.3	111	3.10	9320	7.32	3.19	3.36	112	57.7	12.0	3.93	3.19
3839285	28.0	89.8	11.2	0.11	1440	2.05	0.6	58	206	2.17	325	65.1	46	1.84	1180	14.5	5.41	6.15	56	35.0	27.3	1.22	2.84
3839286	12.4	172	16.9	< 0.05	2180	2.44	0.6	39	267	2.54	60.1	59.9	125	3.63	384	3.44	1.67	1.47	113	53.5	5.00	3.39	2.88
3839287	12.5	221	32.6	< 0.05	3050	3.50	1.0	54	276	1.40	80.1	65.8	176	4.98	1050	7.72	3.87	2.90	159	80.5	10.6	4.83	3.33
3839288	6.1	22.9	7.1	< 0.05	589	0.36	0.1	27	193	0.71	13.6	13.4	21	0.56	719	2.03	1.05	0.72	19	8.0	2.59	0.45	0.61
3839289	2.9	31.1	11.1	< 0.05	451	0.59	0.2	34	158	0.65	80.6	33.7	32	0.77	527	8.72	3.81	2.99	26	10.3	12.3	0.98	0.79
3839290	5.2	36.8	9.9	< 0.05	528	0.65	0.2	27	192	0.91	72.0	26.0	39	1.17	774	6.48	2.66	2.34	27	10.3	9.64	0.80	1.12
3839291	7.0	41.4	10.8	< 0.05	756	0.81	0.2	51	171	0.81	77.8	59.4	47	1.18	732	10.4	4.97	3.78	36	13.5	14.4	0.63	1.39
3839292	2.3	43.5	9.9	< 0.05	622	0.88	0.3	25	165	0.81	63.5	62.5	44	1.26	661	11.4	6.19	3.24	38	15.0	13.5	0.95	1.23
3839293	1.6	43.0	9.3	< 0.05	628	0.83	0.2	44	151	0.69	61.3	57.4	45	1.24	246	5.23	2.63	1.69	35	14.1	6.95	0.71	1.00
3839294	3.4	48.9	7.4	< 0.05	625	0.79	0.2	22	201	0.66	50.1	41.1	41	1.12	383	3.49	1.54	1.38	36	21.0	5.16	1.21	1.39
3839295	1.6	21.3	4.2	< 0.05	433	0.36	0.1	29	164	0.59	90.2	62.8	21	0.40	676	8.34	3.57	2.92	18	7.3	12.6	< 0.05	1.21
3839296	9.2	101	18.9	< 0.05	1340	1.33	0.4	31	285	0.84	50.1	30.0	88	1.61	1110	4.72	2.13	2.11	75	33.8	7.29	2.42	1.54
3839297	8.5	104	10.6	< 0.05	1740	2.21	0.3	46	203	0.60	417	71.4	50	0.95	698	17.2	7.09	7.37	68	30.3	33.0	1.82	2.49
3839298	4.8	213	17.9	< 0.05	2380	5.71	0.6	121	108	0.95	530	103	96	3.37	866	19.2	7.88	7.83	157	76.8	37.3	3.16	4.29
3839299	6.2	237	20.7	< 0.05	3860	3.08	0.8	75	265	1.71	69.0	49.5	111	4.42	1350	11.6	5.42	5.43	134	102	17.0	3.80	3.79
3839300	7.8	364	41.7	< 0.05	3740	5.29	1.1	57	289	0.85	69.7	88.9	234	5.87	1220	7.64	3.54	3.22	242	124	11.2	6.76	4.21
3839301	2.9	358	19.6	< 0.05	3820	7.10	0.7	91	202	0.94	348	231	154	6.11	2080	30.2	14.9	13.0	284	136	49.7	7.15	4.56
3839302	8.2	243	31.3	< 0.05	2070	3.69	0.7	45	277	1.06	38.4	55.4	152	4.50	1520	4.77	2.43	2.20	167	88.3	7.17	5.18	3.43
3839303	10.6	172	36.7	0.06	1750	3.31	0.7	39	252	0.78	69.9	48.7	164	3.21	1220	9.44	4.69	3.41	127	56.1	13.6	3.13	2.67
3839304	4.0	243	22.0	< 0.05	2160	4.41	0.7	92	228	0.59	61.3	55.5	112	4.39	1210	7.24	3.47	3.15	142	92.6	10.4	3.92	3.34
3839305	4.9	157	20.7	< 0.05	1400	2.81	0.5	35	263	0.82	21.9	35.6	97	2.52	450	2.04	0.90	0.76	116	61.0	2.68	3.27	2.10
3839306	11.4	273	25.6	< 0.05	3180	5.34	0.6	72	242	1.19	92.4	74.5	233	4.55	2060	9.91	4.61	3.64	218	105	13.3	5.93	5.23
3839307	3.8	288	22.8	< 0.05	3040	5.01	0.6	56	230	1.14	59.8	61.6	175	5.93	576	6.98	3.38	2.68	204	103	10.00	5.02	4.05
3839308	2.9	276	19.1	< 0.05	2400	5.34	0.4	72	207	0.75	84.7	46.1	100	4.50	481	7.45	3.55	2.74	172	102	10.6	5.07	3.11
3839309	3.8	315	26.6	< 0.05	2660	6.70	0.5	56	239	1.09	76.5	55.6	137	5.35	877	6.75	3.36	2.71	215	123	9.78	6.14	4.49
3839351	3.4	201	21.6	< 0.05	2380	3.12	0.6	61	228	0.93	316	60.0	119	3.40	610	15.9	6.56	7.40	130	76.0	31.9	3.57	3.59
3839352	5.5	152	31.2	< 0.05	3030	2.71	0.5	32	266	1.15	26.5	36.9	142	3.15	852	4.47	2.33	1.62	112	52.9	5.83	3.41	1.91
3839401	5.2	104	15.1	< 0.05	1560	2.18	0.2	78	232	1.72	102	21.4	44	1.75	449	7.03	3.47	2.56	57	41.6	11.1	2.49	1.60
3839402	4.8	148	20.3	< 0.05	1750	3.68	0.3	140	255	1.20	82.0	32.9	92	3.76	829	6.84	3.33	2.44	105	62.2	9.89	2.93	2.90
3839403	7.3	110	17.1	0.13	931	2.29	1.4	128	234	2.17	220	31.2	66	2.11	2240	13.8	6.79	5.29	65	37.0	22.5	1.57	2.54
3839404	21.2	241	43.8	0.26	1900	4.68	0.9	147	277	1.89	399	68.4	214	6.79	7040	23.4	10.8	7.81	197	80.1	35.5	5.08	4.04
3839405	10.9	269	63.2	0.12	2940	6.41	1.3	136	273	0.90	158	55.9	314	7.90	1960	10.3	4.80	3.31	217	91.3	14.9	5.60	6.03
3839406	9.6	153	48.8	0.13	1430	3.99	0.7	139	200	1.66	457	50.6	174	4.70	1020	45.1	22.8	14.4	140	48.1	69.6	1.27	6.13
3839407	15.9	162	17.7	< 0.05	1640	4.10	0.6	56	284	1.43	94.3	49.0	161	6.03	434	4.61	2.25	1.48	156	56.2	6.71	3.80	4.66
3839408	10.2	255	42.0	0.06	2530	6.35	0.9	118	217	1.23	364	72.1	292	7.59	870	26.3	12.4	7.88	239	88.1	38.1	5.88	5.52
3839409	13.4	240	47.3	0.09	2130	5.97	0.7	131	272	1.33	168	53.7	222	5.80	621	21.7	10.7	6.78	223	85.8	31.5	4.60	4.05
3839410	11.5	204	22.0	< 0.05	2080	5.00	0.8	68	217	1.49	132	58.6	206	5.99	775	8.51	4.06	3.20	200	72.8	13.7	4.13	4.66

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839411	6.7	177	29.8	< 0.05	1860	3.89	0.6	62	206	0.66	159	39.7	181	4.76	438	9.52	4.46	3.26	152	63.4	14.5	3.99	2.84
3839412	7.6	149	31.8	< 0.05	1600	2.66	0.5	49	221	0.73	47.9	31.7	146	3.72	333	4.87	2.32	1.75	114	53.2	6.87	3.19	2.13
3839413	8.9	219	39.1	< 0.05	1480	4.85	0.6	95	295	0.65	58.0	41.5	186	5.59	1080	5.69	3.00	1.84	141	71.3	8.46	4.74	2.78
3839414	5.8	131	23.5	< 0.05	1010	2.94	0.4	62	279	0.57	39.4	36.7	136	3.44	784	3.11	1.54	1.07	97	43.0	4.51	3.15	1.77
3839415	5.9	176	26.6	< 0.05	1280	4.56	0.4	86	241	0.68	186	44.8	157	3.90	588	16.3	7.51	5.60	124	58.8	25.4	3.84	2.51
3839416	10.9	245	51.4	< 0.05	1390	6.60	0.8	112	272	0.83	338	67.1	230	6.14	695	16.0	7.75	5.54	163	74.2	28.6	5.17	4.13
3839417	5.0	306	39.1	< 0.05	1540	7.60	0.6	56	229	1.01	222	54.6	299	7.77	724	11.3	5.71	4.17	193	97.0	19.3	5.63	5.59
3839418	5.0	302	34.2	< 0.05	1830	8.57	0.6	159	256	1.38	1240	77.7	185	5.44	839	50.2	25.5	16.1	199	104	89.7	6.66	4.27
3839419	8.6	401	39.7	0.11	1740	10.1	0.6	233	311	1.77	805	70.6	166	5.50	1140	43.7	22.9	15.6	222	139	78.3	6.83	5.26
3839420	9.5	136	22.3	< 0.05	938	4.18	0.4	77	292	1.01	101	33.2	112	2.70	845	6.78	3.43	2.53	94	50.0	11.1	2.94	2.64
3839421	10.6	132	25.8	< 0.05	902	3.22	0.6	139	220	0.60	644	61.3	147	3.09	1400	35.0	17.9	11.8	101	39.2	61.0	2.36	2.50
3839422	6.5	239	33.2	< 0.05	2120	4.73	0.3	100	273	0.96	239	38.3	117	3.14	1160	14.6	6.70	6.40	92	81.7	27.0	2.73	3.76
3839423	7.1	344	67.5	0.05	1730	9.22	1.0	125	261	0.82	294	70.0	373	8.41	1190	17.3	7.38	5.25	237	104	27.7	7.88	6.02
3839424	6.1	349	36.6	0.09	1740	8.94	0.6	144	270	1.50	303	48.6	165	4.58	1070	24.4	12.8	9.28	174	129	42.5	6.42	4.28
3839425	7.5	511	62.6	0.09	1970	13.8	1.1	555	268	1.37	478	60.7	376	9.64	725	21.6	12.0	7.92	244	178	38.7	8.83	8.64
3839426	8.0	636	77.1	0.11	2430	17.7	1.5	624	279	1.63	578	74.2	472	12.4	816	25.7	14.0	9.08	306	228	46.3	10.8	11.4
3839427	7.9	250	22.1	< 0.05	1710	7.02	0.8	120	258	0.86	128	53.3	286	7.96	658	12.8	6.44	4.07	189	75.9	18.2	5.68	5.04
3839428	7.2	210	27.6	0.05	1540	6.37	0.7	143	206	0.99	390	60.9	269	7.89	958	29.2	13.5	8.32	179	69.0	43.1	4.68	5.18
3839429	6.9	417	51.9	0.08	3230	10.6	1.3	200	252	0.96	231	83.5	540	14.1	950	25.8	12.5	7.73	347	137	36.9	9.76	7.88
3839430	14.8	235	31.3	0.08	1880	5.86	0.8	136	219	1.15	205	59.6	262	9.54	1160	17.4	8.53	5.17	188	68.3	25.8	5.83	3.64
3839431	40.5	167	23.5	0.13	1400	5.08	0.4	169	281	4.44	122	33.5	106	3.69	4790	6.90	3.46	2.61	109	64.6	12.5	3.67	2.68
3839432	9.1	353	45.7	0.05	2190	9.27	0.8	160	259	1.27	160	64.4	291	8.84	1030	9.37	4.69	2.78	232	124	13.8	7.48	5.14
3839433	8.9	237	27.9	< 0.05	2160	6.47	0.6	168	231	0.95	189	58.7	183	5.39	1390	17.9	8.36	5.67	186	91.6	25.6	6.54	3.52
3839434	10.5	194	18.5	0.05	2150	5.58	0.3	169	237	0.81	220	32.7	86	5.84	618	24.7	12.9	7.81	106	78.9	35.7	2.83	2.06
3839435	5.5	146	19.4	< 0.05	1090	3.47	0.4	111	209	0.97	57.1	33.5	94	3.89	869	5.67	2.81	2.03	106	59.2	8.52	2.99	1.58
3839436	7.2	23.8	3.5	< 0.05	132	0.56	0.2	8	112	1.28	23.0	14.6	7	0.68	138	1.41	0.57	0.55	11	17.4	2.43	< 0.05	0.75
3839437	5.7	323	43.5	< 0.05	1680	9.32	0.3	98	216	1.32	118	30.9	111	2.92	377	8.67	4.25	3.03	109	115	13.0	4.07	2.80
3839438	5.6	275	59.4	0.06	1050	9.85	0.6	109	248	1.19	131	37.8	189	5.83	430	11.2	5.44	3.47	147	102	15.1	4.14	4.55
3839439	7.8	370	58.7	< 0.05	1680	9.38	0.9	121	288	1.94	85.7	52.9	253	7.55	899	6.06	2.98	1.99	202	130	8.05	7.04	4.21
3839440	3.5	444	69.1	0.08	3870	17.1	1.3	235	189	1.40	5190	143	390	26.8	706	223	96.0	67.2	282	110	383	< 0.05	7.20
3839441	5.2	412	77.7	0.08	2840	11.0	1.7	122	223	1.49	269	95.5	482	15.2	1210	19.8	8.89	5.57	292	137	28.3	8.27	7.80
3839442	11.6	80.2	12.8	< 0.05	645	1.79	0.3	84	178	1.55	44.7	19.8	66	2.33	774	3.73	1.74	1.49	55	29.2	6.05	1.46	1.86
3839443	7.0	70.9	8.0	< 0.05	570	2.46	0.2	68	198	4.20	74.7	19.6	39	1.10	327	6.77	3.24	2.32	43	25.5	9.96	0.83	2.33
3839444	2.0	11.7	2.5	< 0.05	137	0.25	0.2	16	119	1.47	17.1	3.2	7	0.54	70.6	0.74	0.30	0.37	7	9.2	1.45	< 0.05	0.53
3839445	5.2	13.2	3.1	< 0.05	187	0.40	0.2	15	115	0.93	15.3	3.6	3	0.80	170	0.83	0.43	0.39	5	10.9	1.52	< 0.05	0.77
3839446	5.6	218	32.0	0.05	2150	4.68	0.7	73	265	1.25	35.7	63.8	310	9.49	1130	3.84	2.08	1.46	191	70.2	5.07	5.72	4.96
3839447	26.8	178	30.1	0.17	2080	4.33	0.6	131	303	5.32	48.4	55.7	212	6.77	2020	9.68	5.16	2.88	137	62.9	12.6	3.82	3.56
3839448	6.1	67.1	12.2	< 0.05	850	1.59	0.3	57	190	4.27	39.5	17.8	58	2.31	514	4.07	2.41	1.56	43	24.4	6.05	0.77	3.16
3839449	4.6	178	46.9	0.15	1430	3.94	0.6	127	240	1.35	85.9	47.5	218	5.08	487	12.3	6.82	3.65	131	51.1	17.0	3.14	3.52
3839450	12.7	143	30.8	0.52	1450	4.48	0.5	212	350	2.33	121	36.5	217	6.45	2570	31.0	16.9	8.09	130	46.8	38.5	2.24	6.19
3839451	13.3	398	64.0	0.11	2400	14.6	1.2	179	299	1.35	227	63.8	458	9.72	641	22.7	10.6	7.54	252	136	33.3	8.26	8.78
3839452	14.6	270	23.4	0.06	1880	8.78	0.8	202	258	3.77	270	59.1	262	6.94	796	30.3	13.3	9.05	195	93.0	39.7	6.07	8.29
3839453	10.4	184	16.5	0.05	1520	6.47	0.5	255	261	5.02	213	36.1	133	5.35	2300	23.6	11.3	8.04	105	63.7	33.1	3.83	5.55
3839454	10.3	342	48.3	0.05	1700	11.5	1.0	135	271	2.19	446	66.6	363	7.67	605	31.8	14.4	9.54	220	114	46.4	6.49	6.90
3839455	6.3	324	52.3	0.06	2810	11.8	1.4	146	263	1.56	309	65.0	362	7.83	1700	27.1	12.5	8.22	274	96.7	32.2	5.14	5.99
3839456	6.6	270	29.7	< 0.05	1750	8.12	0.7	157	216	1.11	267	44.1	216	4.93	562	20.3	8.90	7.25	183	82.7	26.6	3.08	3.53
3839457	15.7	104	12.8	< 0.05	1010	3.21	0.3	82	216	1.05	137	32.9	105	3.69	597	6.74	3.02	2.52	90	30.6	9.87	< 0.05	1.48
3839458	13.5	316	41.6	0.07	2850	10.1	1.5	198	234	2.73	666	59.7	241	6.42	1860	67.5	29.7	22.1	248	99.1	83.0	3.30	4.37
3839459	4.3	295	39.1	< 0.05	1920	13.5	3.7	213	197	5.82	3640	91.1	217	5.17	834	101	44.3	35.1	233	86.4	180	< 0.05	4.23
3839460	10.2	323	55.6	0.06	2940	10.3	1.5	103	244	1.76	276	64.8	340	7.49	1220	39.2	17.6	11.5	271	101	44.0	5.23	4.65

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839461	2.2	21.2	2.6	< 0.05	570	0.55	0.3	42	84	1.41	34.3	10.8	8	0.37	126	1.45	0.64	0.71	13	11.9	2.63	< 0.05	0.91
3839462	6.8	284	54.0	0.06	2910	6.86	0.9	61	280	1.76	90.8	61.9	292	6.13	1280	8.97	4.02	3.41	238	81.0	11.1	5.84	3.38
3839463	24.7	53.7	8.8	0.49	592	2.54	0.3	55	210	5.52	127	22.9	25	1.03	19000	9.47	4.03	3.49	36	17.0	13.0	< 0.05	1.43
3839464	6.6	184	37.7	0.06	1760	5.93	0.6	138	294	1.06	67.7	35.1	138	3.57	1160	3.80	1.76	1.43	125	61.3	4.69	2.22	2.33
3839465	7.9	322	55.8	0.07	1720	12.3	1.3	136	240	1.60	437	67.8	271	7.73	591	39.8	15.9	12.4	227	103	49.3	4.61	4.16
3839466	156	64.6	20.7	0.08	694	3.07	0.3	90	225	2.35	83.0	28.0	58	1.31	523	9.15	4.40	3.06	67	29.3	10.5	< 0.05	1.50
3839467	9.2	160	37.5	0.10	1290	6.73	0.3	91	233	1.99	131	31.4	118	2.68	391	16.5	6.80	5.15	128	56.1	19.8	2.05	2.67
3839468	6.4	335	84.4	0.09	1640	13.3	1.2	179	217	2.02	2300	122	334	8.31	399	123	47.3	32.9	247	97.2	160	3.84	5.74
3839469	5.5	198	29.2	< 0.05	1360	6.13	0.5	92	234	1.01	159	42.9	159	3.44	498	10.9	4.51	3.49	149	64.8	14.4	1.91	2.81
3839470	9.9	167	18.7	< 0.05	1310	4.73	0.7	81	240	3.39	108	50.7	146	3.73	883	9.10	3.57	3.58	143	51.4	13.4	1.66	2.64
3839471	8.2	32.7	4.7	< 0.05	442	1.27	0.2	47	183	9.07	41.3	11.4	13	0.48	403	3.96	1.72	1.44	20	11.3	5.31	< 0.05	1.11
3839472	11.9	39.2	7.6	< 0.05	604	1.29	0.2	111	212	4.97	42.0	10.6	18	0.55	413	4.09	1.75	1.56	27	13.8	5.60	< 0.05	1.65
3839473	10.6	108	34.4	0.11	1240	3.29	0.5	156	304	1.97	29.4	38.0	116	2.79	819	2.62	1.15	0.97	109	36.5	3.16	< 0.05	1.87
3839474	12.0	63.4	16.4	< 0.05	700	2.01	0.3	42	207	10.5	66.5	20.3	60	1.52	668	7.22	3.24	2.50	51	19.3	9.64	< 0.05	1.59
3839475	4.6	255	72.3	0.12	1820	7.41	1.2	84	259	1.97	258	78.6	291	7.04	569	41.9	17.2	12.4	186	61.8	49.9	1.90	4.56
3839476	18.7	107	47.4	0.61	1010	3.44	0.5	170	367	1.82	93.9	39.2	144	3.77	1330	11.0	4.85	3.37	108	30.0	13.6	< 0.05	3.57
3839477	16.0	22.3	7.7	0.10	426	0.49	< 0.1	124	365	3.68	38.6	13.5	8	0.19	2300	4.34	2.14	1.54	13	3.8	5.58	< 0.05	1.12
3839478	4.6	125	24.5	0.10	1030	2.46	0.4	82	237	2.06	27.5	29.3	160	5.06	307	4.16	2.24	1.39	116	39.1	4.33	1.14	3.49
3839479	12.9	35.0	12.2	0.08	488	0.80	0.1	131	302	8.28	36.6	12.4	31	1.17	950	5.06	2.60	1.64	33	9.1	5.78	< 0.05	0.93
3839480	11.5	15.9	8.7	0.10	411	0.29	< 0.1	224	432	7.66	10.2	7.2	4	0.12	1180	1.50	0.80	0.55	10	2.5	1.68	< 0.05	0.30
3839481	4.7	567	100	0.15	2490	16.5	2.5	321	256	2.17	342	102	562	13.6	778	20.5	8.03	6.33	423	174	27.5	11.9	8.54
3839482	4.5	176	16.9	0.31	1840	5.66	0.4	76	268	0.85	50.2	34.0	104	3.05	542	4.86	2.01	1.71	136	66.5	5.62	1.52	1.56
3839483	2.6	456	149	0.23	2460	18.4	1.7	119	223	1.91	559	85.9	608	12.0	613	46.2	16.9	10.8	337	128	52.2	9.32	10.3
3839484	10.2	96.9	25.1	0.31	904	3.38	0.4	84	238	3.73	67.2	23.1	93	2.44	1700	8.09	3.72	2.83	77	32.2	10.2	< 0.05	2.20
3839485	10.5	132	36.1	0.22	1240	4.46	0.5	75	225	3.86	105	33.2	152	4.22	1170	16.6	7.47	4.83	115	41.6	18.6	1.51	3.22
3839486	11.0	99.0	59.0	0.59	1340	3.39	0.6	54	319	5.53	89.1	44.0	157	4.79	994	12.4	6.27	3.78	118	32.5	14.0	0.30	3.91
3839487	15.2	242	53.5	0.11	2540	7.47	1.1	91	261	1.51	97.2	66.3	311	8.38	816	10.1	4.27	3.22	238	70.4	11.7	4.15	4.48
3839488	11.5	124	25.5	0.13	1470	3.84	0.6	107	256	1.35	71.6	37.8	169	4.73	718	10.7	4.72	3.11	128	42.5	11.7	0.96	2.81
3839489	14.5	91.6	41.5	0.25	1190	2.84	0.4	70	338	4.94	46.1	26.1	131	3.91	793	7.10	3.61	2.10	96	29.7	7.34	< 0.05	3.10
3839490	18.5	66.7	27.7	0.40	1290	2.04	0.3	166	337	3.10	43.9	20.4	103	3.39	1060	9.20	4.23	2.83	84	22.9	10.5	< 0.05	2.17
3839491	16.2	60.8	44.9	0.70	1000	2.18	0.4	66	379	7.20	49.7	20.9	92	3.23	1170	7.63	3.83	2.47	72	20.8	8.69	< 0.05	2.52
3839492	16.2	82.5	33.8	0.45	1120	2.57	0.3	135	319	6.40	45.5	21.9	120	3.82	1310	11.2	5.39	3.37	89	24.2	11.9	< 0.05	3.04
3839493	15.1	70.2	31.1	0.34	1070	2.03	0.3	157	344	5.68	39.2	20.7	100	3.21	1060	7.10	3.56	2.09	75	21.6	7.87	< 0.05	2.40
3839494	11.0	76.2	28.9	0.35	1110	2.70	0.4	110	301	13.6	106	24.4	115	3.62	1060	27.7	13.0	7.32	86	22.8	28.9	< 0.05	3.14
3839495	13.1	41.1	19.2	0.30	786	1.67	0.2	184	358	18.4	63.9	15.1	63	1.94	1020	12.6	5.97	3.42	45	11.6	12.9	< 0.05	2.17
3839496	12.7	103	29.5	0.54	1120	3.61	0.4	119	322	11.2	145	28.2	150	4.96	1230	43.6	21.2	11.0	113	29.8	41.6	< 0.05	4.19
3839497	21.6	202	80.3	1.40	1920	5.66	0.9	72	453	12.1	136	66.7	236	8.94	1890	16.2	7.51	5.13	184	57.2	17.8	0.70	7.29
3839498	19.5	162	77.6	1.07	1640	5.10	0.6	71	468	9.47	110	50.7	189	7.66	1490	15.5	7.36	4.97	148	45.6	16.2	< 0.05	5.56
3839499	13.7	289	70.1	0.81	2590	7.45	1.0	109	369	5.12	198	74.2	349	13.7	1170	36.6	15.4	10.3	227	75.3	38.5	1.23	8.38
3839500	4.3	118	28.4	0.15	1260	2.58	0.4	109	257	2.39	291	167	137	3.14	660	17.4	6.59	5.38	97	29.0	22.8	< 0.05	3.49

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839041	0.45	0.33	107	< 0.1	9	7.54	2.0	0.16	18	1660	9	0.6	9.84	399	86.7	< 0.5	2.11	< 0.5	9.2	0.02	0.22	2.6	3.1
3839042	0.84	1.91	49	< 0.1	6	37.9	11.6	0.68	25	1160	4	1.4	53.3	750	15.0	< 0.5	11.0	< 0.5	32.2	0.01	< 0.05	5.3	10.0
3839043	0.65	0.26	147	< 0.1	8	5.56	1.0	0.08	10	2170	7	0.5	6.55	127	14.0	< 0.5	1.30	< 0.5	20.8	0.02	< 0.05	2.3	2.1
3839044	0.89	0.13	50	< 0.1	7	2.47	1.4	0.03	23	1170	11	0.5	2.97	315	13.3	< 0.5	0.50	< 0.5	13.0	0.01	< 0.05	5.9	1.9
3839045	0.44	0.09	36	< 0.1	6	2.26	1.3	0.02	12	600	6	0.4	2.47	163	10.8	< 0.5	0.50	< 0.5	15.2	< 0.01	< 0.05	2.4	1.6
3839046	1.37	3.59	167	< 0.1	9	53.2	2.8	1.52	22	2890	9	0.9	79.5	225	22.6	< 0.5	16.8	< 0.5	8.9	0.04	< 0.05	6.7	11.7
3839047	0.95	1.47	61	0.1	36	156	43.8	0.43	59	3120	8	7.8	80.9	118	30.1	< 0.5	21.4	< 0.5	87.8	< 0.01	< 0.05	1.8	45.7
3839048	0.48	1.02	31	< 0.1	24	58.5	18.8	0.33	40	2370	11	3.2	42.6	69.3	19.0	< 0.5	9.99	< 0.5	59.1	< 0.01	< 0.05	0.8	24.4
3839049	0.64	1.42	74	< 0.1	37	56.4	22.5	0.60	35	1160	4	1.9	53.7	36.2	16.4	< 0.5	11.7	< 0.5	123	< 0.01	< 0.05	1.3	36.9
3839050	0.95	1.74	76	0.2	34	64.1	42.9	0.75	45	2630	7	6.1	62.8	76.3	29.2	< 0.5	13.3	< 0.5	109	< 0.01	< 0.05	1.9	58.8
3839051	2.92	4.90	70	0.2	43	146	48.7	1.84	59	1390	6	13.3	144	218	37.4	< 0.5	31.2	< 0.5	176	0.02	< 0.05	6.1	68.2
3839052	1.00	2.79	99	0.1	16	85.8	27.1	1.00	41	1210	7	6.0	88.6	248	28.7	< 0.5	19.9	< 0.5	85.2	0.02	< 0.05	1.9	41.4
3839053	0.39	0.51	41	< 0.1	14	18.8	25.4	0.16	41	430	8	5.0	18.4	109	19.1	< 0.5	4.08	< 0.5	76.3	< 0.01	< 0.05	1.2	25.4
3839054	1.85	4.80	111	0.2	37	121	36.7	1.78	56	1540	5	7.1	131	309	25.5	< 0.5	27.6	< 0.5	123	0.03	< 0.05	4.9	63.7
3839055	0.79	1.96	77	< 0.1	12	44.9	21.3	0.76	33	674	4	2.5	54.6	453	10.0	< 0.5	11.8	< 0.5	72.9	0.02	< 0.05	5.0	27.9
3839056	0.30	0.41	80	< 0.1	7	7.64	10.9	0.16	20	284	3	1.2	9.26	136	5.7	< 0.5	2.21	< 0.5	30.7	< 0.01	< 0.05	1.8	9.1
3839057	0.74	0.78	167	< 0.1	16	11.6	9.3	0.26	30	3470	10	0.8	16.9	197	8.2	< 0.5	3.51	< 0.5	11.6	0.10	< 0.05	2.5	6.7
3839058	1.32	1.33	166	< 0.1	15	24.5	33.3	0.47	40	730	7	2.5	31.9	698	11.2	< 0.5	7.04	< 0.5	68.1	0.04	< 0.05	6.0	21.0
3839059	0.73	1.41	92	0.2	30	50.6	39.1	0.39	52	719	9	7.2	47.2	223	42.4	< 0.5	11.2	< 0.5	100	< 0.01	< 0.05	1.8	33.4
3839060	0.49	0.86	51	0.2	31	42.0	56.0	0.29	50	727	13	8.9	33.3	185	41.5	< 0.5	8.24	< 0.5	125	< 0.01	< 0.05	2.3	39.7
3839061	0.67	1.89	68	0.3	43	61.7	103	0.60	59	1810	9	12.3	63.2	317	78.5	< 0.5	15.7	< 0.5	229	< 0.01	< 0.05	3.3	73.0
3839062	0.32	0.73	61	0.3	38	30.8	104	0.30	58	980	6	13.2	31.0	262	61.7	< 0.5	8.00	< 0.5	199	< 0.01	< 0.05	3.1	64.6
3839063	0.71	1.43	48	< 0.1	22	31.2	26.0	0.51	34	2770	5	4.0	38.6	168	16.3	< 0.5	8.73	< 0.5	50.5	< 0.01	< 0.05	1.9	24.8
3839064	0.38	0.73	43	0.2	32	27.9	83.5	0.29	52	905	5	9.3	26.4	196	39.1	< 0.5	6.45	< 0.5	127	< 0.01	< 0.05	2.1	53.8
3839065	0.78	10.2	78	0.3	42	342	111	2.15	78	1760	14	16.4	360	438	161	< 0.5	86.1	< 0.5	260	0.02	< 0.05	4.4	119
3839066	0.65	1.13	63	< 0.1	11	41.9	24.3	0.36	38	1350	14	5.0	39.4	142	22.9	< 0.5	9.44	< 0.5	46.0	< 0.01	< 0.05	1.6	22.9
3839067	0.75	0.54	43	0.1	19	18.4	27.6	0.17	33	960	10	5.8	22.1	99.5	22.2	< 0.5	5.09	< 0.5	61.8	< 0.01	< 0.05	1.2	24.9
3839068	0.49	1.15	42	< 0.1	29	40.4	37.6	0.38	35	1720	10	6.7	48.6	111	37.4	< 0.5	11.1	< 0.5	64.0	< 0.01	< 0.05	1.3	28.8
3839069	0.48	1.22	79	0.1	21	49.8	40.7	0.33	45	2110	12	7.8	43.5	161	42.6	< 0.5	10.6	< 0.5	111	< 0.01	< 0.05	2.1	32.0
3839070	0.57	0.71	45	0.2	22	20.1	42.2	0.22	32	2420	9	6.7	23.6	137	38.8	< 0.5	5.30	< 0.5	101	< 0.01	< 0.05	1.6	30.6
3839071	0.70	3.04	72	0.3	29	89.7	53.3	0.86	52	3170	27	11.1	105	201	111	< 0.5	21.9	< 0.5	140	< 0.01	< 0.05	2.5	55.8
3839072	0.47	1.06	42	0.1	26	41.8	44.7	0.34	27	710	5	6.9	48.3	75.3	198	< 0.5	10.9	< 0.5	68.3	< 0.01	< 0.05	1.2	25.8
3839073	0.53	2.69	39	0.2	17	172	38.7	0.59	33	974	6	7.7	195	125	203	< 0.5	44.4	< 0.5	73.3	< 0.01	< 0.05	1.5	30.7
3839074	0.50	1.90	67	0.2	12	113	43.4	0.57	22	930	5	10.4	86.6	144	347	< 0.5	21.8	< 0.5	65.1	< 0.01	< 0.05	2.0	41.4
3839075	0.39	6.89	48	0.3	14	476	65.2	1.55	29	1270	4	11.4	558	173	414	< 0.5	128	< 0.5	101	0.02	< 0.05	2.0	52.0
3839076	0.42	2.13	73	0.2	20	45.5	51.4	0.68	43	7970	4	8.9	79.2	149	120	< 0.5	14.9	< 0.5	126	0.02	< 0.05	1.9	38.0
3839077	0.27	1.75	38	< 0.1	17	83.5	22.0	0.43	28	2380	4	3.7	98.9	75.7	118	< 0.5	21.5	< 0.5	62.2	< 0.01	< 0.05	0.9	20.0
3839078	0.53	4.04	57	0.3	33	219	69.4	0.96	37	981	5	11.0	262	129	221	< 0.5	58.3	< 0.5	128	0.01	< 0.05	2.0	54.5
3839079	0.33	2.27	63	0.1	22	57.8	47.8	0.66	43	1620	8	7.8	77.1	157	78.3	< 0.5	15.4	< 0.5	82.3	0.11	< 0.05	1.8	40.6
3839080	0.41	1.49	53	0.2	25	40.9	47.3	0.45	31	1520	11	9.2	49.8	155	161	< 0.5	11.1	< 0.5	141	0.13	< 0.05	2.3	40.5
3839081	0.50	2.52	90	0.2	25	75.8	60.7	0.68	58	1160	7	11.2	90.7	243	120	< 0.5	19.3	< 0.5	131	0.06	< 0.05	3.4	53.0
3839082	0.52	5.78	65	0.1	19	234	44.4	1.44	25	2490	5	7.6	386	102	176	< 0.5	79.6	1.2	90.5	0.02	< 0.05	1.4	37.0
3839083	0.22	3.82	60	0.2	13	143	45.7	1.01	26	1080	5	7.7	203	135	283	< 0.5	43.3	< 0.5	87.2	0.02	< 0.05	2.4	42.3
3839084	0.30	3.32	52	0.1	9	118	40.0	0.84	32	3250	3	6.7	175	118	145	< 0.5	35.8	< 0.5	81.4	< 0.01	< 0.05	1.9	39.6
3839085	0.33	2.04	41	0.1	11	121	33.1	0.49	22	9840	4	5.7	136	67.2	150	< 0.5	31.3	< 0.5	54.1	< 0.01	< 0.05	1.2	29.4
3839086	0.42	3.12	55	0.2	18	87.7	65.4	0.90	44	1150	3	8.1	171	114	104	< 0.5	33.1	< 0.5	82.5	< 0.01	< 0.05	1.3	45.5
3839087	0.30	2.39	26	0.2	8	168	37.0	0.59	20	1570	4	5.8	155	112	109	< 0.5	37.3	< 0.5	56.0	< 0.01	< 0.05	1.2	34.0
3839088	0.36	0.90	41	0.1	9	26.7	40.8	0.26	44	930	5	5.7	42.1	147	44.8	< 0.5	8.05	< 0.5	46.6	< 0.01	< 0.05	1.1	25.1
3839089	0.19	1.56	38	0.2	10	76.9	66.8	0.27	62	3050	9	7.5	109	230	38.2	< 0.5	23.0	< 0.5	138	< 0.01	< 0.05	1.2	50.0
3839090	0.25	6.87	32	0.2	9	270	52.7	1.94	42	4340	4	6.2	443	319	198	< 0.5	90.1	< 0.5	53.4	0.02	< 0.05	1.0	58.9

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839091	0.26	3.00	34	0.2	14	130	56.4	0.73	41	1920	7	7.7	190	123	102	< 0.5	40.0	< 0.5	103	< 0.01	< 0.05	1.1	41.3
3839092	0.21	1.86	30	< 0.1	10	87.2	27.4	0.44	35	2060	6	5.0	131	88.4	73.1	< 0.5	27.1	< 0.5	43.5	< 0.01	< 0.05	0.9	18.9
3839093	0.45	0.48	24	0.1	34	16.5	41.0	0.15	22	1650	7	5.7	18.9	60.7	40.3	< 0.5	4.06	< 0.5	61.5	< 0.01	< 0.05	0.6	27.5
3839094	0.34	3.96	59	0.2	14	152	62.5	1.05	47	4680	7	9.5	220	140	90.7	< 0.5	46.3	< 0.5	89.9	0.02	< 0.05	1.7	54.9
3839095	0.41	5.13	37	0.2	11	174	53.7	1.38	58	5840	5	5.4	249	150	72.3	< 0.5	52.1	0.6	53.1	0.01	< 0.05	1.0	74.9
3839096	0.57	1.56	61	0.2	29	33.1	88.3	0.50	68	2160	4	6.1	50.3	121	28.0	< 0.5	9.88	< 0.5	80.8	< 0.01	< 0.05	1.1	60.2
3839097	0.70	2.74	84	0.3	23	66.6	123	0.83	70	2830	4	10.1	88.4	146	49.4	< 0.5	18.0	< 0.5	79.4	< 0.01	< 0.05	1.7	76.7
3839098	0.49	0.80	52	0.2	15	20.8	59.7	0.28	46	991	3	5.3	25.5	97.8	18.9	< 0.5	5.90	< 0.5	54.3	< 0.01	< 0.05	1.0	39.0
3839099	0.46	1.71	59	0.4	23	38.1	109	0.48	68	1810	4	9.5	50.6	163	34.9	< 0.5	11.7	< 0.5	95.7	< 0.01	< 0.05	1.6	81.9
3839100	0.56	9.45	90	0.8	33	113	165	2.54	105	5870	5	14.6	264	180	66.5	< 0.5	50.8	< 0.5	129	0.03	< 0.05	1.9	174
3839101	0.09	0.16	11	< 0.1	22	9.55	0.5	0.04	4	296	< 2	0.7	12.7	10.2	12.1	< 0.5	2.90	< 0.5	57.5	< 0.01	< 0.05	< 0.2	1.4
3839102	0.61	0.59	30	< 0.1	31	24.3	0.7	0.16	3	1840	3	1.6	31.9	36.5	20.7	< 0.5	7.52	< 0.5	50.6	< 0.01	< 0.05	0.3	4.9
3839103	< 0.05	0.10	7	< 0.1	62	3.94	9.0	0.03	7	4890	4	0.7	4.59	25.4	4.7	< 0.5	0.95	< 0.5	64.4	< 0.01	< 0.05	0.8	1.6
3839104	0.43	0.44	30	< 0.1	30	17.4	16.5	0.14	8	687	2	3.4	24.4	48.5	21.9	< 0.5	5.58	< 0.5	53.0	< 0.01	< 0.05	0.8	9.0
3839105	0.28	0.63	50	0.3	33	22.2	65.6	0.29	49	1290	5	10.9	21.5	245	37.9	< 0.5	5.72	< 0.5	152	< 0.01	< 0.05	2.7	62.2
3839106	0.33	0.47	52	0.2	34	14.5	67.1	0.20	40	920	5	9.7	16.6	182	35.3	< 0.5	3.91	< 0.5	174	< 0.01	< 0.05	2.1	44.6
3839107	0.59	2.03	101	0.2	27	58.2	58.9	0.55	44	1500	6	7.1	71.4	182	26.6	< 0.5	16.3	< 0.5	128	< 0.01	< 0.05	2.6	51.2
3839108	0.69	3.41	78	0.2	18	90.6	47.6	0.84	31	956	5	6.3	109	180	30.0	< 0.5	24.9	< 0.5	85.3	0.01	< 0.05	2.1	49.4
3839109	0.78	1.33	150	0.1	14	27.4	41.8	0.48	34	627	7	4.2	34.7	255	15.7	< 0.5	7.85	< 0.5	82.6	< 0.01	< 0.05	3.4	31.0
3839110	0.23	0.14	41	< 0.1	7	3.71	1.4	0.04	5	265	2	0.7	4.61	81.5	6.6	< 0.5	0.99	< 0.5	55.8	< 0.01	< 0.05	1.1	1.6
3839111	0.70	1.64	122	< 0.1	5	27.0	9.5	0.62	29	1280	6	1.7	38.9	566	9.5	< 0.5	8.59	< 0.5	18.6	0.07	< 0.05	7.8	11.0
3839112	0.55	0.60	67	< 0.1	10	12.4	23.3	0.22	26	485	5	2.4	16.2	140	10.7	< 0.5	3.63	< 0.5	43.4	< 0.01	< 0.05	1.3	15.9
3839113	0.78	2.43	87	< 0.1	15	40.6	32.4	0.87	27	2700	6	3.5	58.2	313	24.9	< 0.5	12.3	< 0.5	55.8	< 0.01	< 0.05	2.3	29.5
3839114	0.76	1.65	120	0.1	16	39.4	68.0	0.57	37	1120	3	6.0	48.9	300	15.2	< 0.5	10.7	< 0.5	85.8	< 0.01	< 0.05	3.3	34.1
3839115	0.78	2.49	57	< 0.1	8	52.2	25.8	0.72	28	695	4	2.9	67.6	178	11.7	< 0.5	14.3	< 0.5	45.8	< 0.01	< 0.05	2.2	27.9
3839116	0.40	0.86	62	< 0.1	9	25.3	19.5	0.23	42	786	4	3.6	29.8	129	22.4	< 0.5	6.68	< 0.5	38.4	< 0.01	< 0.05	1.6	20.8
3839117	0.46	4.16	62	0.2	21	130	55.1	1.03	59	2480	11	8.8	144	336	75.8	< 0.5	31.8	< 0.5	122	< 0.01	< 0.05	3.1	59.2
3839118	0.37	0.22	47	< 0.1	9	8.28	23.3	0.10	28	468	5	5.1	6.52	88.4	12.3	< 0.5	1.72	< 0.5	74.0	< 0.01	< 0.05	1.5	18.0
3839119	0.38	0.86	33	0.1	16	27.8	33.3	0.30	31	1110	7	5.0	30.9	127	23.2	< 0.5	7.37	< 0.5	69.6	0.01	< 0.05	1.3	29.4
3839120	0.94	6.13	102	0.2	28	108	39.7	2.05	42	2310	6	6.6	158	415	49.4	< 0.5	32.7	< 0.5	106	0.02	< 0.05	3.8	54.8
3839121	1.21	14.2	107	0.1	22	225	51.6	4.34	43	831	4	6.1	366	369	26.2	< 0.5	73.3	< 0.5	85.9	0.04	< 0.05	3.2	59.1
3839122	0.86	3.50	94	< 0.1	20	63.2	49.8	1.24	40	528	4	4.7	92.6	208	13.6	< 0.5	18.9	< 0.5	84.6	0.01	< 0.05	3.2	49.0
3839123	0.81	2.13	46	< 0.1	7	40.9	15.0	0.69	26	1150	7	1.5	56.9	990	9.5	< 0.5	12.1	< 0.5	31.4	0.02	< 0.05	7.5	11.8
3839124	0.36	1.48	34	< 0.1	< 5	22.1	9.1	0.49	23	2560	5	1.0	31.9	276	24.9	< 0.5	6.83	< 0.5	16.5	0.05	< 0.05	6.2	8.1
3839125	0.52	0.82	83	< 0.1	9	15.9	13.3	0.30	31	1410	13	1.4	20.4	445	6.0	< 0.5	4.72	< 0.5	40.3	< 0.01	< 0.05	2.5	10.0
3839126	1.03	2.06	131	0.1	28	42.3	39.1	0.78	31	2930	12	4.9	50.4	257	18.5	< 0.5	11.7	< 0.5	83.2	< 0.01	< 0.05	3.2	39.2
3839127	0.36	0.41	87	< 0.1	19	14.0	10.3	0.17	12	1210	3	2.4	15.8	103	10.4	< 0.5	3.85	< 0.5	30.4	< 0.01	< 0.05	1.0	8.8
3839128	0.63	2.76	74	0.5	63	98.7	123	0.86	79	2780	10	19.4	82.8	523	107	< 0.5	22.0	< 0.5	356	< 0.01	< 0.05	5.1	162
3839129	0.77	3.27	67	0.5	59	116	113	0.86	77	2270	11	19.2	103	418	95.2	< 0.5	27.7	< 0.5	269	< 0.01	< 0.05	6.3	136
3839130	1.11	4.04	61	0.7	82	173	184	0.98	105	2860	21	28.5	124	553	130	< 0.5	35.7	< 0.5	418	0.01	< 0.05	9.2	222
3839131	0.46	1.86	74	0.4	35	55.0	115	0.60	68	1430	11	15.3	53.9	391	94.0	< 0.5	13.9	< 0.5	227	< 0.01	< 0.05	3.7	100.0
3839132	0.56	1.59	59	0.3	57	41.0	98.8	0.55	61	1260	6	14.1	47.9	380	120	< 0.5	11.8	< 0.5	235	< 0.01	< 0.05	3.4	86.4
3839133	0.49	1.51	86	0.1	18	37.1	45.4	0.40	44	2610	8	7.8	39.2	128	39.0	< 0.5	9.38	< 0.5	86.6	< 0.01	< 0.05	2.5	39.9
3839134	0.32	0.63	21	< 0.1	32	36.2	6.2	0.19	8	1430	3	2.8	38.7	26.0	29.1	< 0.5	9.93	< 0.5	51.6	< 0.01	< 0.05	0.5	6.9
3839135	0.23	0.26	17	< 0.1	19	17.5	1.2	0.06	4	831	< 2	1.0	20.5	14.4	11.9	< 0.5	5.11	< 0.5	55.2	< 0.01	< 0.05	0.2	1.5
3839136	1.03	3.33	81	0.2	28	72.4	56.1	0.99	49	1460	3	7.6	95.1	202	46.0	< 0.5	23.1	< 0.5	110	0.01	< 0.05	2.3	47.6
3839137	0.34	1.04	56	0.3	40	30.8	71.1	0.34	56	1120	6	12.3	36.5	214	96.6	< 0.5	9.23	< 0.5	164	< 0.01	< 0.05	3.5	51.4
3839138	0.28	1.93	54	0.2	26	49.9	64.3	0.58	46	1470	4	10.5	67.3	220	134	< 0.5	15.1	< 0.5	129	< 0.01	< 0.05	2.7	52.2
3839139	0.50	3.74	98	0.2	34	93.5	51.7	1.16	37	824	4	9.4	146	168	207	< 0.5	33.4	< 0.5	122	0.02	< 0.05	2.5	62.0
3839140	0.32	2.39	58	0.2	33	63.2	55.6	0.79	52	765	5	11.7	87.1	223	186	< 0.5	19.4	< 0.5	126	< 0.01	< 0.05	2.5	54.2

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839141	0.38	2.64	73	0.3	30	62.2	61.4	0.69	43	1320	4	9.8	66.9	271	179	< 0.5	16.4	< 0.5	136	< 0.01	< 0.05	2.9	66.0
3839142	0.50	7.98	95	0.2	15	151	44.0	1.24	48	1060	5	8.2	296	286	97.1	< 0.5	65.5	< 0.5	90.8	0.01	< 0.05	2.6	43.1
3839143	0.26	1.26	50	0.2	24	28.0	63.8	0.36	45	1060	4	9.3	38.1	239	95.1	< 0.5	8.37	< 0.5	167	< 0.01	< 0.05	2.7	55.7
3839144	0.36	6.74	61	0.2	18	185	53.4	1.25	62	1300	7	9.8	212	328	144	< 0.5	51.6	< 0.5	131	0.01	< 0.05	3.4	64.3
3839145	0.35	2.48	71	< 0.1	7	50.6	20.2	0.64	44	1560	2	4.0	70.3	170	92.2	< 0.5	15.5	< 0.5	45.0	0.01	< 0.05	1.4	22.7
3839146	0.25	0.55	48	< 0.1	5	20.2	3.5	0.12	29	295	3	1.2	20.3	84.1	45.9	< 0.5	4.64	< 0.5	12.8	< 0.01	< 0.05	1.5	5.1
3839147	0.22	2.03	53	0.2	19	96.0	51.1	0.48	43	972	4	9.0	119	161	125	< 0.5	28.5	< 0.5	108	< 0.01	< 0.05	2.3	32.9
3839148	0.29	0.52	84	< 0.1	10	15.9	22.4	0.21	30	659	6	5.0	20.7	92.1	24.8	< 0.5	4.37	< 0.5	42.7	< 0.01	< 0.05	1.5	14.7
3839149	0.29	3.82	40	0.2	8	165	32.8	0.89	27	410	5	9.3	245	108	215	< 0.5	57.4	< 0.5	50.4	< 0.01	< 0.05	2.2	27.3
3839150	0.34	1.72	53	0.1	7	105	31.2	0.45	31	749	9	10.3	106	110	101	< 0.5	27.2	< 0.5	54.9	< 0.01	< 0.05	2.4	24.3
3839151	0.21	3.81	43	0.3	14	257	71.2	0.85	41	2860	7	13.0	264	222	231	< 0.5	68.8	< 0.5	82.5	0.02	< 0.05	2.0	45.3
3839152	0.46	1.22	104	0.1	11	31.8	51.1	0.42	53	976	8	11.0	35.6	212	108	< 0.5	8.43	< 0.5	81.5	< 0.01	< 0.05	2.5	33.6
3839153	0.37	7.77	60	0.4	25	428	70.5	2.10	28	1060	5	12.4	492	195	448	< 0.5	124	< 0.5	110	0.02	< 0.05	2.2	62.3
3839154	0.75	4.73	53	0.6	22	138	89.2	1.49	70	4630	5	10.7	210	443	206	< 0.5	48.4	< 0.5	178	< 0.01	< 0.05	1.9	89.7
3839155	0.65	2.53	92	0.3	25	47.4	86.5	0.87	57	2330	7	13.8	67.9	240	182	< 0.5	14.2	< 0.5	138	< 0.01	< 0.05	2.4	77.3
3839156	0.41	6.56	78	0.2	16	102	68.1	1.96	45	3510	5	8.3	226	135	131	< 0.5	47.5	< 0.5	66.2	0.01	< 0.05	1.3	90.0
3839157	0.42	4.05	34	0.2	11	84.2	28.6	1.32	30	2860	4	3.5	150	72.1	63.8	< 0.5	33.4	< 0.5	39.1	0.01	< 0.05	0.6	62.9
3839158	0.35	0.68	92	0.2	15	21.0	58.6	0.19	47	1180	3	8.5	24.3	113	37.1	< 0.5	5.32	< 0.5	62.2	< 0.01	< 0.05	1.2	40.6
3839159	0.43	3.10	49	0.2	14	139	62.1	0.92	43	2970	5	6.0	171	124	70.6	< 0.5	42.1	< 0.5	69.7	< 0.01	< 0.05	1.0	62.8
3839160	0.63	12.5	75	0.5	40	169	145	3.37	87	9600	6	12.4	302	244	115	< 0.5	65.2	< 0.5	106	0.04	< 0.05	2.1	134
3839161	0.59	3.50	56	0.3	35	46.6	96.0	0.95	68	3650	4	7.4	83.6	129	61.1	< 0.5	17.2	< 0.5	55.5	0.01	< 0.05	1.2	74.7
3839162	0.28	7.61	61	0.5	31	147	119	1.84	71	4000	6	10.9	202	205	98.8	< 0.5	46.0	< 0.5	144	0.01	< 0.05	1.9	164
3839163	0.29	1.37	45	0.3	19	36.4	78.5	0.34	64	1590	4	10.2	36.8	175	51.6	< 0.5	8.94	< 0.5	118	< 0.01	< 0.05	1.9	70.3
3839164	0.43	2.15	49	0.3	23	32.4	83.5	0.61	48	3930	4	9.2	57.6	147	59.7	< 0.5	12.1	< 0.5	82.2	< 0.01	< 0.05	1.6	60.7
3839165	0.33	1.53	57	0.5	49	27.8	124	0.45	72	2470	6	13.1	36.6	200	72.7	< 0.5	7.99	< 0.5	160	< 0.01	< 0.05	2.0	109
3839166	0.34	0.89	44	0.2	27	15.1	73.5	0.26	45	1860	3	5.3	23.3	63.5	21.3	< 0.5	4.85	< 0.5	66.2	< 0.01	< 0.05	0.8	43.0
3839167	0.35	1.23	31	0.2	27	28.2	54.0	0.39	42	1530	3	5.1	46.4	54.5	54.3	< 0.5	9.83	< 0.5	48.7	< 0.01	< 0.05	0.8	27.7
3839168	0.33	0.64	30	0.1	17	20.6	18.7	0.21	23	1140	3	3.6	29.2	38.6	32.9	< 0.5	6.02	< 0.5	27.9	< 0.01	< 0.05	0.5	13.2
3839169	0.46	1.64	39	0.1	23	63.0	22.7	0.49	32	5210	7	4.8	94.7	89.2	42.0	< 0.5	20.6	< 0.5	32.9	< 0.01	< 0.05	1.1	17.4
3839170	0.47	2.65	59	0.7	17	53.5	50.6	0.93	40	6920	5	7.8	85.3	154	75.8	< 0.5	16.9	< 0.5	80.4	< 0.01	< 0.05	2.0	63.2
3839201	0.37	1.76	41	0.2	15	52.7	36.5	0.42	49	4290	5	5.8	79.2	74.5	43.9	< 0.5	16.6	< 0.5	50.1	< 0.01	< 0.05	1.1	27.7
3839202	0.49	4.07	46	0.3	50	111	133	1.22	78	15800	8	12.5	167	137	107	< 0.5	35.0	< 0.5	117	< 0.01	< 0.05	1.6	89.4
3839203	0.43	1.39	34	0.3	18	44.7	51.6	0.38	50	2680	4	5.9	62.8	112	60.4	< 0.5	13.8	< 0.5	63.5	< 0.01	< 0.05	0.8	52.2
3839204	0.31	1.16	18	0.2	10	60.2	29.2	0.33	25	7030	4	4.9	66.3	65.8	90.3	< 0.5	16.3	< 0.5	23.1	< 0.01	< 0.05	0.5	33.0
3839205	0.43	1.70	40	0.2	15	40.7	44.7	0.59	42	2780	4	7.6	61.8	164	66.8	< 0.5	13.0	< 0.5	71.7	0.01	< 0.05	1.0	32.6
3839206	0.54	1.28	62	0.4	30	36.0	69.7	0.52	68	2730	5	18.0	47.5	324	111	< 0.5	10.3	< 0.5	193	< 0.01	< 0.05	2.9	63.8
3839207	0.31	1.98	49	0.3	43	44.6	69.0	0.65	94	7560	5	12.6	56.0	480	91.6	< 0.5	12.1	< 0.5	122	0.01	< 0.05	1.6	62.0
3839208	0.53	7.60	45	0.6	51	247	99.1	2.35	62	2710	6	19.2	339	303	363	< 0.5	75.4	< 0.5	196	0.03	< 0.05	3.9	112
3839209	0.31	0.84	24	0.2	17	39.5	48.0	0.26	34	3410	5	9.6	38.6	98.7	88.0	< 0.5	9.54	< 0.5	80.2	< 0.01	< 0.05	1.1	41.7
3839210	0.27	0.69	32	0.1	9	21.3	23.7	0.20	55	1170	5	5.3	25.1	98.3	28.3	< 0.5	5.36	< 0.5	48.8	< 0.01	< 0.05	1.1	19.3
3839211	0.51	3.43	34	0.2	19	94.6	41.9	1.02	39	1290	4	7.8	169	150	141	< 0.5	36.1	< 0.5	78.3	< 0.01	< 0.05	1.5	39.3
3839212	0.20	1.04	40	0.2	17	32.3	30.2	0.32	44	789	4	7.6	46.4	125	77.3	< 0.5	10.4	< 0.5	54.0	< 0.01	< 0.05	1.8	21.8
3839213	0.61	3.58	47	0.5	45	151	92.0	1.14	57	1320	6	21.5	192	272	368	< 0.5	45.8	< 0.5	159	< 0.01	< 0.05	4.4	69.1
3839214	0.41	1.28	41	0.3	31	26.6	44.3	0.43	42	1230	4	9.1	39.7	113	112	< 0.5	8.25	< 0.5	80.8	< 0.01	< 0.05	1.3	42.4
3839215	0.50	1.14	33	0.2	30	24.7	32.7	0.40	42	1360	4	5.9	39.4	98.6	63.3	< 0.5	8.10	< 0.5	57.4	< 0.01	< 0.05	1.2	26.2
3839216	1.10	6.90	77	0.3	33	107	166	2.33	51	13700	5	9.3	189	291	47.2	< 0.5	36.1	< 0.5	137	0.02	< 0.05	2.3	78.1
3839217	0.54	2.34	58	0.4	30	60.3	98.6	0.92	55	2980	6	13.8	88.6	171	134	< 0.5	19.4	< 0.5	166	0.02	< 0.05	2.1	56.0
3839218	0.49	0.94	43	0.3	16	23.9	50.4	0.30	45	1410	7	9.1	37.1	112	78.6	< 0.5	7.84	< 0.5	43.2	< 0.01	< 0.05	1.3	30.2
3839219	0.50	5.23	42	0.3	16	238	42.6	1.36	29	3840	6	10.0	303	135	209	< 0.5	74.2	< 0.5	54.0	0.02	< 0.05	1.5	42.8
3839220	0.67	1.40	43	0.2	14	50.9	35.2	0.34	18	2430	8	7.7	67.1	71.3	89.6	< 0.5	15.9	< 0.5	40.8	< 0.01	< 0.05	1.0	22.9

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839221	0.25	1.01	52	0.3	22	30.8	67.9	0.38	35	1440	5	11.4	44.5	112	66.3	< 0.5	10.2	< 0.5	77.8	< 0.01	< 0.05	1.5	36.3
3839222	0.26	1.84	56	0.1	13	53.5	25.1	0.53	35	2050	4	8.6	85.1	86.5	128	< 0.5	19.2	< 0.5	37.5	0.01	< 0.05	1.2	21.2
3839223	0.40	1.38	32	0.2	16	79.1	49.9	0.44	29	937	7	13.2	73.6	97.9	202	< 0.5	18.6	< 0.5	48.0	< 0.01	< 0.05	1.6	29.1
3839224	0.23	2.40	25	0.3	18	195	43.4	0.62	17	6750	4	8.6	176	60.7	188	< 0.5	46.6	< 0.5	38.5	0.02	< 0.05	1.0	21.3
3839225	0.19	3.50	103	0.3	20	126	69.2	1.14	57	1530	8	22.4	151	231	218	< 0.5	35.1	< 0.5	104	0.02	< 0.05	3.9	52.0
3839226	0.48	1.96	48	0.2	14	63.6	46.7	0.70	36	1200	6	11.5	91.9	135	181	< 0.5	20.8	< 0.5	70.7	< 0.01	< 0.05	2.6	29.4
3839227	0.53	2.13	37	0.3	25	120	77.7	0.84	28	12500	6	13.1	104	190	298	< 0.5	28.2	< 0.5	121	< 0.01	< 0.05	2.4	52.7
3839228	0.54	3.61	50	0.3	21	102	58.2	1.20	41	965	4	10.3	163	160	149	< 0.5	36.2	< 0.5	105	0.01	< 0.05	2.7	46.7
3839229	0.58	5.87	39	0.5	32	275	94.3	1.63	54	1600	6	14.8	367	256	234	< 0.5	91.5	< 0.5	181	0.01	< 0.05	3.1	82.7
3839230	0.66	3.28	59	0.3	24	133	72.8	0.84	58	1360	5	12.0	113	293	170	< 0.5	28.8	< 0.5	131	< 0.01	< 0.05	4.5	58.5
3839231	0.59	7.88	63	0.3	12	231	40.4	2.20	48	646	3	7.6	269	228	282	< 0.5	66.0	< 0.5	68.9	0.02	< 0.05	2.0	62.1
3839232	0.43	9.72	63	0.3	16	333	56.4	2.33	49	1540	4	10.9	351	319	212	< 0.5	87.2	< 0.5	93.5	0.02	< 0.05	3.1	78.6
3839233	0.79	8.87	63	0.2	13	411	38.8	1.90	57	1160	3	6.8	358	261	109	< 0.5	94.3	< 0.5	57.4	0.02	< 0.05	2.9	61.3
3839234	0.60	0.84	41	0.1	8	26.6	25.7	0.32	47	2190	3	4.5	26.6	226	24.0	< 0.5	6.37	< 0.5	35.0	< 0.01	< 0.05	2.1	19.6
3839235	0.21	2.80	47	0.2	19	148	35.0	0.82	31	692	6	6.9	149	139	210	< 0.5	39.2	< 0.5	73.1	< 0.01	< 0.05	2.0	32.0
3839236	0.22	1.21	36	0.2	56	38.5	45.3	0.48	31	1550	6	7.6	40.3	92.7	203	< 0.5	10.3	< 0.5	118	< 0.01	< 0.05	1.7	32.7
3839237	0.52	2.12	77	0.2	36	69.6	23.6	0.76	19	5650	4	6.7	84.3	88.8	99.4	< 0.5	20.7	< 0.5	103	< 0.01	< 0.05	1.6	31.5
3839238	1.37	3.25	40	0.2	12	45.5	32.7	1.03	37	598	8	6.7	78.6	200	61.4	< 0.5	16.2	< 0.5	54.1	0.01	< 0.05	1.7	29.4
3839239	1.22	4.00	63	< 0.1	15	98.2	22.8	1.02	32	632	10	4.7	125	166	45.6	< 0.5	28.7	< 0.5	47.6	0.01	< 0.05	1.8	29.5
3839240	0.87	4.54	78	0.2	37	197	18.1	1.00	16	738	6	3.7	182	59.1	172	< 0.5	48.8	< 0.5	52.8	0.02	< 0.05	1.3	36.5
3839241	0.17	1.57	20	< 0.1	12	71.1	9.3	0.43	13	222	< 2	2.3	77.5	74.4	162	< 0.5	19.7	< 0.5	14.4	< 0.01	< 0.05	0.7	12.4
3839242	0.47	39.6	67	0.2	11	654	55.1	9.80	47	1470	5	8.6	1010	441	220	< 0.5	226	< 0.5	88.8	0.11	< 0.05	3.0	81.0
3839243	0.28	4.74	53	0.1	13	142	37.1	1.16	45	1290	4	5.6	181	195	182	< 0.5	42.1	< 0.5	73.1	< 0.01	< 0.05	2.2	46.6
3839244	0.28	8.61	73	0.2	8	364	41.7	1.91	54	8920	6	8.0	353	320	182	< 0.5	87.9	< 0.5	49.7	0.04	< 0.05	2.8	71.6
3839245	0.36	4.36	92	0.3	15	232	73.9	1.13	60	1420	5	12.0	177	375	246	< 0.5	46.5	< 0.5	85.7	0.02	< 0.05	3.9	84.1
3839246	0.42	2.36	41	0.2	16	258	66.2	0.54	64	2340	4	10.5	125	291	102	< 0.5	35.2	< 0.5	72.8	< 0.01	< 0.05	3.2	71.3
3839247	0.24	2.45	64	0.3	16	80.9	83.2	0.63	53	2640	4	10.8	109	223	92.5	< 0.5	24.9	< 0.5	106	< 0.01	< 0.05	2.5	66.6
3839248	0.41	3.02	88	0.1	6	103	34.0	0.84	47	2220	5	7.6	99.0	200	105	< 0.5	23.1	< 0.5	34.7	< 0.01	< 0.05	2.0	39.8
3839249	0.55	2.51	42	0.3	21	80.9	73.4	0.75	56	2500	5	12.9	89.5	232	189	< 0.5	21.3	1.5	129	0.01	< 0.05	2.6	59.7
3839250	0.34	0.54	64	0.1	10	13.8	33.4	0.17	44	908	4	6.1	17.9	137	40.3	< 0.5	3.77	< 0.5	49.7	< 0.01	< 0.05	1.7	22.1
3839251	1.87	1.95	59	0.1	6	53.3	30.6	0.54	48	7000	15	3.8	84.1	204	23.6	< 0.5	18.5	< 0.5	38.1	0.02	< 0.05	1.4	28.5
3839252	0.32	1.04	35	0.2	12	30.5	49.4	0.32	28	12200	6	7.3	44.8	134	77.7	< 0.5	11.0	< 0.5	77.8	< 0.01	< 0.05	1.1	34.7
3839253	0.29	3.00	39	0.2	21	103	66.2	0.76	26	6550	4	7.9	158	118	97.6	< 0.5	36.5	< 0.5	96.5	< 0.01	< 0.05	1.0	39.8
3839254	0.21	2.55	29	0.3	19	56.0	61.9	0.68	41	7270	5	9.1	88.5	153	102	< 0.5	20.8	< 0.5	76.0	< 0.01	< 0.05	1.2	51.0
3839255	0.19	0.70	43	0.1	15	17.9	33.3	0.21	48	1770	5	6.1	24.7	126	31.4	< 0.5	5.80	< 0.5	41.0	< 0.01	< 0.05	1.1	23.8
3839256	0.38	1.28	50	0.2	20	26.3	68.9	0.38	35	3700	4	9.8	38.7	144	115	< 0.5	9.16	< 0.5	82.7	< 0.01	< 0.05	1.5	47.5
3839257	0.30	1.14	38	0.2	21	24.2	50.5	0.31	32	1850	3	9.3	38.4	132	62.3	< 0.5	8.96	< 0.5	76.2	< 0.01	< 0.05	1.5	44.6
3839258	0.26	3.12	28	0.2	14	141	75.1	0.68	52	3730	3	6.2	179	115	78.5	< 0.5	45.5	< 0.5	73.5	< 0.01	< 0.05	0.8	58.1
3839259	0.30	1.99	38	0.1	16	74.3	42.3	0.43	33	949	4	6.2	123	103	69.9	< 0.5	30.2	< 0.5	56.7	< 0.01	< 0.05	1.1	26.8
3839261	0.43	1.19	48	0.2	11	25.9	42.3	0.36	37	4460	3	5.6	37.6	134	57.6	< 0.5	8.96	< 0.5	45.4	< 0.01	< 0.05	1.1	41.3
3839262	0.23	2.36	44	0.4	28	32.4	92.5	0.61	56	4530	3	5.1	54.8	124	35.5	< 0.5	12.6	< 0.5	66.5	< 0.01	< 0.05	0.9	97.2
3839263	0.38	0.92	43	0.2	25	20.2	96.7	0.26	58	4440	5	6.8	27.7	108	28.4	< 0.5	6.83	< 0.5	81.3	< 0.01	< 0.05	1.1	59.7
3839264	0.36	0.63	40	0.2	27	12.3	77.0	0.18	51	2000	3	4.9	16.1	87.6	31.2	< 0.5	3.64	< 0.5	61.9	< 0.01	< 0.05	0.8	44.7
3839265	0.32	2.50	34	0.2	13	87.3	51.0	0.67	24	14900	4	6.5	114	101	95.9	< 0.5	29.1	< 0.5	50.1	0.01	< 0.05	0.9	44.8
3839266	0.53	4.77	60	0.2	17	100	75.6	1.07	60	8680	4	6.2	145	122	91.3	< 0.5	35.1	< 0.5	29.7	0.02	< 0.05	1.0	58.2
3839267	0.44	2.45	66	0.3	14	44.5	78.0	0.71	60	2290	3	6.0	69.7	102	63.7	< 0.5	15.9	< 0.5	46.0	< 0.01	< 0.05	1.0	51.7
3839268	0.35	1.20	35	0.1	23	38.6	43.2	0.32	39	2290	4	4.9	58.1	64.0	53.6	< 0.5	14.2	< 0.5	37.2	< 0.01	< 0.05	0.9	24.7
3839269	0.34	1.05	55	0.1	24	18.2	39.6	0.34	49	2010	4	4.6	29.3	102	28.7	< 0.5	6.31	< 0.5	38.8	< 0.01	< 0.05	1.0	26.5
3839270	0.34	4.23	59	0.2	24	134	61.3	1.20	54	5680	5	6.3	176	218	122	< 0.5	42.0	< 0.5	61.9	< 0.01	< 0.05	0.9	60.2
3839271	0.39	1.53	50	0.3	33	44.8	88.1	0.45	55	6750	6	7.8	53.1	93.5	56.9	< 0.5	12.7	< 0.5	69.5	< 0.01	< 0.05	0.9	72.6

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839272	0.64	5.23	62	0.7	40	130	168	1.52	76	7680	5	14.4	163	214	69.8	< 0.5	37.8	< 0.5	146	0.01	< 0.05	2.3	133
3839273	0.34	1.35	29	0.2	27	34.9	56.8	0.38	45	2550	4	6.7	47.5	113	37.0	< 0.5	10.7	< 0.5	64.6	< 0.01	< 0.05	0.9	45.6
3839274	0.16	0.93	29	0.3	23	31.7	99.4	0.32	53	2940	4	6.9	39.1	104	35.2	< 0.5	9.33	< 0.5	78.9	< 0.01	< 0.05	1.1	62.6
3839275	0.30	0.71	37	0.1	19	14.7	42.6	0.21	35	3030	4	4.5	22.0	71.3	38.8	< 0.5	4.56	< 0.5	40.7	< 0.01	< 0.05	0.9	30.1
3839276	0.30	1.77	35	0.2	26	46.1	48.8	0.46	43	5190	5	6.4	71.0	120	39.0	< 0.5	15.1	< 0.5	48.4	< 0.01	< 0.05	1.3	40.6
3839277	0.27	0.88	39	0.1	12	22.4	31.0	0.24	25	1320	2	4.1	35.9	51.6	35.0	< 0.5	7.70	< 0.5	33.9	< 0.01	< 0.05	0.7	18.4
3839278	0.30	0.49	35	0.2	19	15.4	49.1	0.17	33	1030	3	6.1	20.6	92.4	27.7	< 0.5	4.59	< 0.5	64.0	< 0.01	< 0.05	1.1	28.7
3839279	0.41	1.63	34	0.2	40	38.6	64.0	0.48	38	2650	7	9.0	63.8	127	75.0	< 0.5	13.6	< 0.5	57.0	< 0.01	< 0.05	1.5	39.6
3839280	0.56	0.59	34	< 0.1	11	16.4	27.6	0.17	26	3030	6	5.9	21.7	77.8	24.5	< 0.5	4.62	< 0.5	32.3	< 0.01	< 0.05	1.3	14.7
3839281	0.33	3.32	38	0.1	16	217	40.9	0.70	24	17000	9	6.8	215	119	80.3	< 0.5	54.1	< 0.5	60.8	< 0.01	< 0.05	1.2	32.7
3839282	0.56	1.94	40	0.2	27	46.4	53.3	0.56	39	8350	6	7.2	72.3	124	76.2	< 0.5	15.7	< 0.5	58.9	0.02	< 0.05	1.3	57.4
3839283	0.49	2.67	36	0.2	12	151	49.7	0.63	38	6140	7	7.2	158	134	112	< 0.5	41.5	< 0.5	44.2	< 0.01	< 0.05	1.5	45.2
3839284	0.22	1.23	39	0.1	15	54.2	35.8	0.39	35	5370	4	7.5	68.0	114	63.6	< 0.5	17.0	< 0.5	46.8	< 0.01	< 0.05	1.3	28.5
3839285	0.36	2.25	44	0.1	14	140	19.4	0.52	15	10100	4	4.6	161	62.8	79.3	< 0.5	41.3	< 0.5	47.8	< 0.01	< 0.05	0.9	18.7
3839286	0.32	0.62	38	0.1	20	24.8	34.3	0.22	30	9910	5	7.3	25.4	106	47.5	< 0.5	6.39	< 0.5	55.7	< 0.01	< 0.05	1.2	29.9
3839287	0.45	1.40	63	0.2	22	42.3	46.5	0.45	35	7330	5	10.4	52.2	157	72.3	< 0.5	12.3	< 0.5	73.4	< 0.01	< 0.05	2.0	41.4
3839288	0.20	0.38	28	< 0.1	9	7.69	4.3	0.09	14	1020	< 2	1.3	12.4	40.1	14.1	< 0.5	2.52	< 0.5	11.6	< 0.01	< 0.05	0.6	5.7
3839289	0.16	1.47	22	< 0.1	6	37.1	5.9	0.37	16	803	< 2	2.0	62.7	55.0	50.0	< 0.5	13.6	< 0.5	18.5	< 0.01	< 0.05	0.5	11.0
3839290	0.14	1.08	22	< 0.1	8	33.4	8.2	0.24	22	1370	2	2.3	51.5	64.9	27.7	< 0.5	11.5	< 0.5	22.5	< 0.01	< 0.05	0.4	8.8
3839291	0.23	1.86	29	< 0.1	12	38.4	10.4	0.54	21	1240	< 2	2.7	73.5	65.7	64.2	< 0.5	15.5	< 0.5	20.4	< 0.01	< 0.05	0.7	15.3
3839292	0.28	2.17	42	< 0.1	6	30.0	9.8	0.60	20	1330	< 2	2.6	51.5	89.0	111	< 0.5	11.1	< 0.5	28.0	< 0.01	< 0.05	0.7	21.2
3839293	0.27	0.87	29	< 0.1	9	27.4	9.8	0.26	19	776	< 2	2.5	35.4	54.3	67.1	< 0.5	8.46	< 0.5	24.9	< 0.01	< 0.05	0.7	14.7
3839294	0.15	0.62	23	< 0.1	6	23.2	10.2	0.18	25	447	2	2.8	28.9	51.1	37.5	< 0.5	6.68	< 0.5	16.9	< 0.01	< 0.05	0.5	10.9
3839295	0.23	1.49	26	< 0.1	< 5	33.3	3.7	0.30	7	5310	< 2	1.2	59.0	38.4	81.6	< 0.5	13.2	< 0.5	15.4	< 0.01	< 0.05	0.5	10.8
3839296	0.50	0.84	44	< 0.1	8	29.6	19.5	0.23	26	1670	7	6.5	39.5	119	33.1	< 0.5	8.74	< 0.5	23.6	< 0.01	< 0.05	1.5	16.7
3839297	0.27	2.90	26	< 0.1	7	221	21.4	0.65	20	3200	3	3.8	200	66.1	92.8	< 0.5	53.9	< 0.5	19.6	< 0.01	< 0.05	0.8	29.2
3839298	0.29	3.28	48	0.2	54	277	48.7	0.75	26	1540	5	9.0	218	93.9	126	< 0.5	61.0	< 0.5	51.5	0.02	< 0.05	1.2	40.1
3839299	0.69	2.23	71	0.2	30	58.9	47.6	0.65	31	9080	8	9.7	97.0	130	91.7	< 0.5	21.6	< 0.5	78.3	< 0.01	< 0.05	1.5	36.3
3839300	0.45	1.38	49	0.3	20	46.9	65.2	0.40	56	7930	9	14.7	63.1	192	79.4	< 0.5	14.5	< 0.5	74.1	< 0.01	< 0.05	2.8	59.8
3839301	0.61	5.60	55	0.4	18	171	82.3	1.66	59	15400	6	11.8	294	183	130	< 0.5	67.4	< 0.5	120	0.02	< 0.05	1.3	118
3839302	0.58	0.90	62	0.2	31	28.6	57.7	0.33	38	1960	6	10.6	40.4	136	46.8	< 0.5	9.15	< 0.5	71.3	< 0.01	< 0.05	1.9	42.0
3839303	0.41	1.71	45	0.1	14	46.6	33.5	0.52	40	2540	7	9.0	62.8	130	85.7	< 0.5	13.8	< 0.5	37.7	< 0.01	< 0.05	2.0	34.9
3839304	0.59	1.31	69	0.1	25	40.0	47.7	0.43	52	3120	5	9.3	53.7	141	75.2	< 0.5	12.6	< 0.5	57.2	< 0.01	< 0.05	1.4	37.3
3839305	0.66	0.38	49	0.1	20	11.9	34.2	0.12	24	1880	3	6.7	12.6	78.7	31.5	< 0.5	2.88	< 0.5	41.8	< 0.01	< 0.05	1.1	27.7
3839306	0.54	1.89	57	0.3	26	41.7	79.9	0.54	59	4250	4	10.7	56.1	291	54.6	< 0.5	13.3	< 0.5	67.1	< 0.01	< 0.05	1.5	67.9
3839307	0.47	1.27	39	0.2	29	38.1	62.9	0.42	39	3180	5	10.2	49.3	160	46.2	< 0.5	11.6	< 0.5	76.8	< 0.01	< 0.05	1.5	54.4
3839308	0.50	1.33	48	0.2	12	38.7	68.6	0.41	55	1820	3	7.2	48.9	104	42.4	< 0.5	11.5	< 0.5	53.6	< 0.01	< 0.05	1.0	51.0
3839309	0.54	1.28	48	0.3	20	32.9	79.0	0.39	51	2010	4	8.5	42.1	133	41.7	< 0.5	9.74	< 0.5	69.7	< 0.01	< 0.05	1.3	64.5
3839351	0.27	2.70	48	0.2	12	141	54.4	0.68	35	1290	4	7.9	198	113	128	< 0.5	47.6	< 0.5	54.7	< 0.01	< 0.05	1.5	35.7
3839352	0.50	0.87	40	0.1	12	17.1	40.2	0.27	42	1720	3	6.8	22.5	109	66.3	< 0.5	5.05	< 0.5	49.7	< 0.01	< 0.05	1.3	27.8
3839401	0.33	1.34	51	< 0.1	18	52.4	27.2	0.38	22	2770	5	3.4	51.5	50.0	48.3	< 0.5	14.6	< 0.5	42.0	< 0.01	< 0.05	0.7	20.8
3839402	0.69	1.24	77	0.1	28	53.3	44.3	0.38	65	4060	10	8.4	49.6	78.2	34.6	< 0.5	12.5	< 0.5	68.9	< 0.01	< 0.05	1.2	36.8
3839403	0.58	2.59	68	< 0.1	22	121	25.0	0.77	32	5110	7	4.6	120	65.2	138	< 0.5	31.5	< 0.5	40.7	< 0.01	< 0.05	0.8	28.3
3839404	0.84	4.33	84	0.3	42	219	67.2	1.02	70	3670	22	12.6	175	172	60.6	< 0.5	47.2	< 0.5	125	0.02	< 0.05	1.9	71.2
3839405	0.63	1.94	73	0.3	35	90.2	83.9	0.58	78	2110	9	13.2	65.4	182	70.4	< 0.5	18.6	< 0.5	128	0.01	< 0.05	3.0	83.8
3839406	1.50	8.67	78	0.2	65	312	57.8	2.49	48	3650	6	9.7	332	230	64.9	< 0.5	81.9	< 0.5	98.0	0.03	< 0.05	3.0	52.5
3839407	0.46	0.84	40	0.1	36	41.2	59.1	0.28	37	3740	6	8.3	29.5	111	38.2	< 0.5	8.25	< 0.5	100	< 0.01	< 0.05	1.3	44.2
3839408	0.64	4.98	56	0.3	37	241	78.1	1.32	60	4020	7	10.9	188	214	101	< 0.5	52.2	< 0.5	123	0.01	< 0.05	2.1	76.5
3839409	0.82	4.10	85	0.2	40	149	77.7	1.14	59	3320	7	9.3	146	160	54.9	< 0.5	35.6	< 0.5	121	0.01	< 0.05	2.3	64.8
3839410	0.70	1.55	57	0.2	41	50.4	73.6	0.46	53	6970	6	9.3	64.0	181	52.6	< 0.5	15.7	< 0.5	122	< 0.01	< 0.05	1.8	54.6

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839411	0.55	1.81	43	0.2	33	58.3	48.0	0.49	47	1610	5	7.6	63.5	132	94.0	< 0.5	15.7	< 0.5	77.7	< 0.01	< 0.05	1.3	45.7
3839412	0.45	0.90	46	0.1	30	32.2	35.0	0.26	47	795	5	6.5	31.4	109	49.2	< 0.5	7.72	< 0.5	61.1	< 0.01	< 0.05	1.5	28.4
3839413	0.65	1.14	57	0.2	31	42.9	51.0	0.37	49	1170	6	7.7	34.8	117	65.4	< 0.5	8.79	< 0.5	88.5	< 0.01	< 0.05	1.7	41.9
3839414	0.48	0.57	45	0.1	22	26.5	34.9	0.18	58	1190	8	4.7	19.1	98.9	31.2	< 0.5	5.32	< 0.5	49.5	< 0.01	< 0.05	1.0	29.7
3839415	0.51	3.09	44	0.1	29	162	37.9	0.83	60	2440	6	5.2	119	112	46.2	< 0.5	33.4	< 0.5	60.8	< 0.01	< 0.05	1.3	44.9
3839416	0.63	3.09	43	0.2	50	233	51.9	0.89	54	2610	7	9.2	128	124	82.8	< 0.5	37.7	< 0.5	86.9	0.01	< 0.05	2.1	66.1
3839417	0.65	2.05	33	0.3	40	116	88.2	0.67	56	2150	6	8.7	85.0	142	73.9	< 0.5	24.1	< 0.5	140	< 0.01	< 0.05	1.9	86.1
3839418	0.74	9.73	61	0.2	37	727	69.1	2.88	70	6290	6	7.6	402	141	101	< 0.5	123	< 0.5	88.8	0.03	< 0.05	1.7	97.1
3839419	0.83	8.63	89	0.3	37	658	90.4	2.67	82	6290	10	8.7	383	126	84.1	< 0.5	112	< 0.5	108	0.02	< 0.05	1.5	106
3839420	0.78	1.33	47	0.1	22	71.4	37.4	0.42	54	2950	6	4.3	53.5	63.9	24.7	< 0.5	14.7	< 0.5	48.0	< 0.01	< 0.05	1.0	36.0
3839421	0.33	6.83	51	0.1	14	309	32.9	1.97	50	1690	5	6.0	252	160	153	< 0.5	67.7	< 0.5	66.3	0.02	< 0.05	1.3	64.0
3839422	0.62	2.68	37	0.1	38	97.5	43.4	0.70	49	2390	6	6.1	121	96.6	93.7	< 0.5	29.5	< 0.5	63.5	0.02	< 0.05	1.4	46.8
3839423	0.59	2.98	47	0.3	44	244	72.8	0.67	76	2920	11	11.0	129	210	97.6	< 0.5	40.4	< 0.5	123	< 0.01	< 0.05	2.7	88.0
3839424	0.74	4.83	63	0.2	38	365	78.0	1.57	65	6210	7	8.2	231	124	64.2	< 0.5	65.8	< 0.5	68.9	0.02	< 0.05	1.8	64.3
3839425	0.66	4.37	215	0.4	60	292	103	1.62	79	3280	6	14.3	157	217	110	< 0.5	45.5	< 0.5	145	< 0.01	< 0.05	2.8	113
3839426	0.88	5.28	238	0.5	68	347	131	1.95	88	3620	7	17.9	187	262	130	< 0.5	53.7	< 0.5	182	0.02	< 0.05	3.5	139
3839427	0.48	2.37	45	0.3	41	107	66.6	0.75	65	3780	6	8.0	80.8	117	49.8	< 0.5	22.5	< 0.5	128	< 0.01	< 0.05	1.8	73.4
3839428	0.51	5.18	52	0.3	42	179	66.4	1.39	59	5710	7	7.7	182	154	77.0	< 0.5	46.9	< 0.5	131	< 0.01	< 0.05	1.7	68.7
3839429	0.88	4.75	71	0.5	44	196	125	1.46	82	4630	8	15.1	166	221	92.5	< 0.5	44.5	< 0.5	182	0.02	< 0.05	2.9	124
3839430	0.65	3.18	59	0.2	43	107	64.8	0.97	65	4270	5	7.0	107	152	55.6	< 0.5	27.3	< 0.5	127	0.01	< 0.05	1.6	57.5
3839431	0.49	1.34	77	0.2	40	78.5	45.6	0.52	53	4290	8	4.9	65.5	91.9	45.6	< 0.5	17.4	< 0.5	60.4	< 0.01	< 0.05	1.1	43.2
3839432	0.67	1.62	76	0.3	42	62.9	80.2	0.55	61	2460	8	10.1	50.4	164	71.7	< 0.5	13.8	< 0.5	121	< 0.01	< 0.05	2.4	79.1
3839433	0.56	3.32	48	0.3	30	126	58.1	0.93	69	4310	10	8.6	110	122	62.2	< 0.5	28.8	< 0.5	72.0	< 0.01	< 0.05	1.7	60.0
3839434	0.53	4.80	57	0.2	42	105	35.8	1.65	57	2830	4	3.8	135	77.7	80.9	< 0.5	32.0	< 0.5	131	< 0.01	< 0.05	0.9	48.1
3839435	0.34	1.03	48	0.1	30	41.6	32.4	0.34	44	1720	6	5.1	36.8	62.6	48.9	< 0.5	9.38	< 0.5	68.4	< 0.01	< 0.05	1.1	29.8
3839436	0.31	0.22	19	< 0.1	28	9.93	3.0	0.07	2	483	3	1.5	12.4	9.7	40.0	< 0.5	3.12	< 0.5	36.9	< 0.01	< 0.05	0.2	2.8
3839437	0.84	1.59	47	0.2	27	53.4	59.6	0.52	40	2670	4	5.1	49.7	80.4	54.1	< 0.5	12.6	< 0.5	49.1	< 0.01	< 0.05	1.2	51.1
3839438	0.54	1.97	67	0.3	34	72.1	79.6	0.59	56	2620	5	10.0	64.9	120	48.2	< 0.5	17.1	< 0.5	74.3	< 0.01	< 0.05	2.1	83.9
3839439	0.94	1.13	59	0.3	29	41.6	70.8	0.39	50	1620	6	12.1	32.4	133	88.4	< 0.5	8.75	< 0.5	92.2	< 0.01	< 0.05	2.3	66.2
3839440	0.91	38.7	51	0.5	63	1610	132	8.42	74	6970	9	11.9	1520	302	318	< 0.5	412	< 0.5	316	0.09	< 0.05	3.9	265
3839441	0.71	3.46	79	0.4	33	128	98.0	0.92	69	3930	12	20.1	106	254	138	< 0.5	27.5	< 0.5	156	0.01	< 0.05	4.5	109
3839442	0.55	0.67	37	< 0.1	22	26.9	21.2	0.22	20	2100	4	3.6	32.0	60.4	39.6	< 0.5	7.72	< 0.5	32.9	< 0.01	< 0.05	0.7	17.3
3839443	0.89	1.17	31	< 0.1	33	38.3	14.9	0.36	19	5990	6	3.3	47.1	39.6	62.9	< 0.5	12.0	< 0.5	20.6	< 0.01	< 0.05	0.5	16.6
3839444	0.22	0.13	15	< 0.1	18	6.92	3.3	0.04	2	236	< 2	0.9	8.36	7.9	27.6	< 0.5	2.16	< 0.5	42.1	< 0.01	< 0.05	0.2	2.4
3839445	0.34	0.15	22	< 0.1	23	7.57	1.6	0.05	< 2	223	2	1.3	8.89	13.0	50.0	< 0.5	2.35	< 0.5	47.9	< 0.01	< 0.05	0.3	2.1
3839446	0.55	0.76	58	0.3	37	22.2	89.2	0.30	49	2190	5	9.0	23.2	163	38.7	< 0.5	6.12	< 0.5	167	< 0.01	< 0.05	1.9	61.5
3839447	1.09	1.89	134	0.2	23	43.2	62.4	0.65	46	4770	7	7.1	50.8	258	40.8	< 0.5	12.1	< 0.5	107	0.01	< 0.05	3.3	46.0
3839448	0.95	0.81	63	< 0.1	25	24.4	23.3	0.33	10	1310	4	4.6	31.9	62.2	23.9	< 0.5	7.92	< 0.5	45.7	0.01	< 0.05	0.9	17.9
3839449	0.78	2.46	73	0.2	16	61.5	61.0	0.90	41	706	7	6.7	73.6	149	31.5	< 0.5	17.6	< 0.5	76.4	< 0.01	< 0.05	2.2	43.1
3839450	1.33	6.14	195	0.2	19	105	85.0	2.14	38	2710	7	6.1	146	283	37.1	< 0.5	34.1	< 0.5	86.3	0.03	< 0.05	3.3	56.8
3839451	0.86	4.06	72	0.4	33	278	112	1.29	80	3390	6	13.4	178	211	80.2	< 0.5	50.2	< 0.5	129	0.02	< 0.05	3.3	110
3839452	0.72	5.32	74	0.3	39	177	86.6	1.42	57	5860	6	11.4	178	159	108	< 0.5	47.2	< 0.5	145	0.01	< 0.05	1.4	72.7
3839453	0.86	4.26	86	0.2	30	188	61.8	1.29	42	8580	7	6.1	163	101	97.9	< 0.5	43.9	< 0.5	85.8	0.01	< 0.05	1.4	49.0
3839454	0.71	5.63	62	0.4	35	223	80.4	1.50	61	6340	7	11.8	201	185	134	< 0.5	54.3	< 0.5	109	0.02	< 0.05	2.2	92.5
3839455	0.57	5.64	61	0.4	38	166	114	1.52	66	5550	7	15.5	176	202	164	< 0.5	44.7	< 0.5	140	0.02	< 0.05	2.8	88.1
3839456	0.46	3.95	65	0.2	37	181	72.6	1.11	57	2920	6	9.5	171	117	125	< 0.5	46.9	< 0.5	108	0.01	< 0.05	1.2	51.6
3839457	0.32	1.41	38	< 0.1	32	57.3	31.0	0.33	48	2820	4	3.1	60.4	67.2	37.0	< 0.5	15.7	< 0.5	92.2	0.01	< 0.05	0.5	25.5
3839458	0.51	13.8	69	0.4	31	495	92.5	3.40	67	5590	21	15.0	533	170	137	< 0.5	140	< 0.5	140	0.04	< 0.05	2.1	76.8
3839459	0.50	20.2	59	0.3	25	2440	78.3	5.38	57	3500	12	15.2	1350	132	333	< 0.5	438	< 0.5	104	0.08	< 0.05	1.9	138
3839460	0.62	7.94	59	0.3	38	221	104	2.20	69	3100	18	16.8	244	189	201	< 0.5	59.6	< 0.5	153	0.02	< 0.05	2.4	76.1

Results

Activation Laboratories Ltd.

Report: A22-11786

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839461	0.29	0.31	21	< 0.1	30	15.2	2.6	0.08	5	1460	2	1.8	17.5	11.2	58.9	< 0.5	4.45	< 0.5	34.2	< 0.01	< 0.05	< 0.2	3.5
3839462	0.41	1.79	35	0.3	36	57.1	81.5	0.52	48	2920	6	12.3	60.9	173	94.1	< 0.5	14.9	< 0.5	146	< 0.01	< 0.05	1.7	60.9
3839463	0.58	1.90	25	< 0.1	21	74.2	12.3	0.49	20	6210	7	3.0	76.1	44.3	65.3	< 0.5	20.1	< 0.5	36.5	< 0.01	< 0.05	0.4	16.6
3839464	0.30	0.73	71	0.2	25	23.5	54.1	0.25	37	1910	6	8.2	22.3	88.1	43.2	< 0.5	6.27	< 0.5	84.6	< 0.01	< 0.05	1.6	37.4
3839465	0.61	7.74	72	0.3	31	237	90.6	1.71	64	2680	9	13.3	263	149	231	< 0.5	66.4	< 0.5	147	0.02	< 0.05	2.8	87.3
3839466	0.44	2.09	97	< 0.1	15	32.1	23.3	0.47	37	5840	6	4.0	67.6	54.4	74.7	< 0.5	15.7	< 0.5	31.1	< 0.01	< 0.05	1.1	21.0
3839467	0.42	3.16	68	0.1	22	129	76.9	0.70	50	2490	3	8.6	115	99.2	34.4	< 0.5	31.2	< 0.5	58.6	< 0.01	< 0.05	1.5	45.7
3839468	0.51	23.2	70	0.3	38	721	133	4.62	58	7000	7	15.2	796	203	280	< 0.5	211	< 0.5	169	0.05	< 0.05	3.6	176
3839469	0.51	2.15	50	0.1	21	81.8	54.5	0.56	54	1850	5	6.5	75.8	116	62.6	< 0.5	19.8	< 0.5	63.2	< 0.01	< 0.05	1.2	44.5
3839470	0.44	1.71	44	0.2	21	68.9	56.7	0.37	34	6240	6	8.7	97.4	102	71.4	< 0.5	23.0	< 0.5	80.5	< 0.01	< 0.05	1.1	34.6
3839471	0.63	0.77	25	< 0.1	43	20.6	5.9	0.21	8	6310	6	2.3	33.2	34.0	70.5	< 0.5	7.80	< 0.5	24.5	< 0.01	< 0.05	0.3	7.9
3839472	0.82	0.82	38	< 0.1	37	23.5	8.6	0.20	15	4350	6	2.9	34.7	39.2	52.3	< 0.5	8.42	< 0.5	22.5	< 0.01	< 0.05	0.4	9.4
3839473	0.80	0.56	144	0.1	17	15.4	38.2	0.19	38	3200	7	5.3	16.3	83.9	27.0	< 0.5	4.08	< 0.5	51.0	< 0.01	< 0.05	1.8	26.5
3839474	0.68	1.51	44	< 0.1	27	33.5	21.1	0.41	18	5210	6	3.6	52.5	73.0	83.3	< 0.5	11.9	< 0.5	35.5	< 0.01	< 0.05	0.7	19.5
3839475	0.52	8.37	78	0.2	28	145	86.1	1.83	54	1350	8	13.9	257	201	155	< 0.5	54.7	< 0.5	140	0.01	< 0.05	2.4	68.4
3839476	0.85	2.24	91	0.1	15	52.5	54.9	0.60	45	1340	5	5.7	72.1	134	25.2	< 0.5	16.9	< 0.5	64.4	0.01	< 0.05	2.1	40.8
3839477	0.65	0.95	201	< 0.1	8	21.8	2.7	0.28	14	3200	15	1.0	33.1	87.3	31.3	< 0.5	7.68	< 0.5	7.5	0.01	< 0.05	2.3	5.6
3839478	0.35	0.88	57	0.2	30	16.2	60.8	0.34	41	1260	5	5.5	23.3	101	23.3	< 0.5	5.77	< 0.5	93.4	< 0.01	< 0.05	1.4	45.1
3839479	0.53	1.14	93	< 0.1	9	17.3	15.4	0.35	20	3530	6	1.5	28.1	79.2	21.8	< 0.5	6.60	< 0.5	22.3	0.02	< 0.05	2.0	10.9
3839480	0.69	0.27	134	< 0.1	13	5.99	3.3	0.10	25	7240	13	0.5	8.83	90.2	11.0	< 0.5	1.98	< 0.5	6.4	0.04	< 0.05	4.0	2.9
3839481	0.46	3.84	168	0.5	49	161	150	0.84	87	3400	22	29.6	148	241	165	< 0.5	39.9	< 0.5	251	0.01	< 0.05	4.9	151
3839482	0.46	0.94	44	0.2	25	22.0	52.8	0.25	56	1910	3	4.6	25.3	70.8	49.8	< 0.5	5.90	< 0.5	92.1	< 0.01	< 0.05	0.8	41.8
3839483	0.85	8.41	88	0.5	46	300	192	1.56	85	2430	8	21.1	256	347	127	< 0.5	69.1	< 0.5	223	0.02	< 0.05	4.0	170
3839484	0.69	1.67	50	< 0.1	23	48.4	35.2	0.46	33	3810	6	4.7	60.6	87.2	26.4	< 0.5	14.4	< 0.5	52.2	< 0.01	< 0.05	0.9	27.1
3839485	0.63	3.53	48	0.1	23	69.5	53.8	0.92	39	4010	5	6.5	95.1	141	50.3	< 0.5	20.9	< 0.5	80.5	0.01	< 0.05	1.5	40.7
3839486	0.71	2.65	46	0.1	30	51.7	54.9	0.97	41	3480	8	7.0	69.5	175	24.7	< 0.5	15.1	< 0.5	75.3	0.01	< 0.05	2.5	47.9
3839487	0.42	1.93	87	0.3	42	49.4	105	0.52	56	1850	7	11.4	58.7	180	64.6	< 0.5	13.4	< 0.5	146	0.01	< 0.05	2.7	65.0
3839488	0.83	2.19	96	0.2	31	44.0	54.2	0.54	45	2920	8	7.0	60.0	118	31.3	< 0.5	13.8	< 0.5	100	0.01	< 0.05	1.9	39.2
3839489	0.66	1.47	57	0.1	39	33.1	55.2	0.57	32	2520	6	5.4	41.2	143	15.8	< 0.5	9.37	< 0.5	70.0	< 0.01	< 0.05	1.7	37.3
3839490	0.67	1.97	188	< 0.1	14	34.0	57.8	0.63	35	865	5	3.7	49.1	219	10.7	< 0.5	10.6	< 0.5	62.7	0.01	< 0.05	2.9	27.7
3839491	0.69	1.68	66	< 0.1	23	37.3	38.7	0.59	28	1820	6	5.4	46.3	135	15.7	< 0.5	10.5	< 0.5	59.9	0.01	< 0.05	2.3	30.0
3839492	0.85	2.39	112	0.1	18	44.1	51.9	0.81	35	1630	6	4.7	60.7	263	14.7	< 0.5	13.4	< 0.5	68.7	< 0.01	< 0.05	2.1	33.7
3839493	0.82	1.57	104	< 0.1	16	29.0	42.7	0.48	38	1340	5	4.0	39.2	220	12.9	< 0.5	8.55	< 0.5	56.9	0.01	< 0.05	2.2	26.3
3839494	0.90	5.76	93	0.1	21	77.1	48.4	1.65	33	3540	6	4.5	127	239	33.2	< 0.5	26.6	< 0.5	64.4	0.02	< 0.05	2.2	35.3
3839495	1.03	2.67	122	< 0.1	12	41.8	24.6	0.82	29	2150	7	2.7	62.0	217	17.3	< 0.5	13.7	< 0.5	38.4	0.04	< 0.05	2.1	18.4
3839496	1.21	9.47	74	0.2	19	107	60.4	2.72	40	3020	5	4.9	178	236	55.1	< 0.5	38.8	< 0.5	79.1	0.03	< 0.05	3.0	53.1
3839497	1.70	3.26	48	0.3	58	88.7	83.7	1.35	68	5310	13	15.3	90.2	244	46.3	< 0.5	22.7	< 0.5	157	0.02	< 0.05	5.0	87.8
3839498	1.67	3.19	57	0.2	47	81.4	70.0	1.31	46	2270	7	13.2	81.5	177	32.1	< 0.5	20.2	< 0.5	135	0.01	< 0.05	4.2	74.1
3839499	1.48	7.11	129	0.3	39	162	104	2.29	66	3850	7	14.6	180	355	52.4	< 0.5	42.2	< 0.5	195	0.02	< 0.05	4.6	110
3839500	0.48	3.10	83	0.1	14	129	38.7	0.82	47	3060	6	5.1	119	192	80.0	< 0.5	29.6	< 0.5	61.2	0.01	< 0.05	1.5	41.2

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839041	5	2.16	595	0.03	0.35	< 1	1.45	< 0.2	0.15	5.41	69	2.36	9.37	0.82	117	24.4
3839042	13	11.1	508	0.09	1.74	< 1	4.85	< 0.2	0.65	16.7	48	1.96	61.6	3.94	45	52.1
3839043	3	1.35	278	0.02	0.20	< 1	0.78	< 0.2	0.09	2.47	40	1.15	6.55	0.53	23	17.0
3839044	4	0.52	506	0.02	0.11	< 1	0.25	< 0.2	0.04	2.87	140	1.55	1.82	0.30	16	9.0
3839045	2	0.61	229	0.03	0.08	< 1	0.25	< 0.2	0.04	1.29	29	0.76	1.07	0.18	16	7.8
3839046	8	17.8	576	0.04	3.03	2	4.02	< 0.2	1.43	8.41	76	1.52	133	8.92	63	41.9
3839047	8	12.3	756	0.45	1.61	< 1	35.0	0.6	0.48	10.1	283	4.70	40.3	3.03	320	121
3839048	4	7.59	682	0.19	1.06	< 1	9.30	0.3	0.31	5.21	146	2.69	30.3	1.77	195	47.7
3839049	7	10.3	753	0.09	1.29	< 1	5.58	0.5	0.51	1.64	235	12.9	51.8	3.48	141	31.0
3839050	7	12.6	755	0.31	1.57	< 1	11.9	0.5	0.68	8.25	309	17.1	61.5	3.60	266	90.5
3839051	5	29.3	807	0.87	4.40	1	26.1	1.1	1.77	5.10	383	2.58	180	10.6	350	210
3839052	8	18.4	606	0.40	2.74	1	14.1	0.5	0.96	10.7	213	3.44	89.9	5.78	169	141
3839053	4	3.31	514	0.32	0.47	< 1	6.75	0.5	0.17	3.47	196	1.32	11.2	1.12	132	87.0
3839054	8	28.2	703	0.45	4.10	< 1	17.6	0.8	1.74	4.26	276	1.58	167	10.8	259	200
3839055	7	11.4	452	0.19	1.82	< 1	7.13	0.4	0.70	9.23	151	1.73	60.6	4.28	111	68.7
3839056	4	2.42	366	0.11	0.34	< 1	2.34	< 0.2	0.14	2.19	55	1.22	9.00	0.87	43	31.6
3839057	4	3.75	670	0.05	0.67	< 1	2.17	< 0.2	0.26	2.73	58	1.44	23.9	1.77	98	24.3
3839058	14	7.69	712	0.17	1.19	< 1	7.04	0.4	0.49	5.25	135	2.24	41.6	3.01	80	64.0
3839059	5	9.58	538	0.50	1.49	< 1	10.6	0.5	0.45	3.59	265	2.72	44.4	2.56	167	88.0
3839060	7	5.94	605	0.61	0.94	< 1	14.6	0.7	0.30	4.53	296	2.62	23.6	1.89	197	101
3839061	7	12.7	748	0.72	1.83	< 1	33.9	1.0	0.66	7.22	450	3.68	53.8	4.06	294	216
3839062	4	6.03	733	0.75	0.72	< 1	20.2	1.1	0.29	3.94	381	3.08	19.9	1.91	309	170
3839063	5	8.77	561	0.24	1.36	< 1	9.01	0.3	0.52	3.89	156	1.74	45.1	3.31	142	82.8
3839064	2	5.31	674	0.61	0.67	< 1	20.7	0.8	0.27	3.60	269	2.58	17.8	1.70	249	153
3839065	2	66.5	826	1.09	10.4	< 1	52.3	1.3	2.92	12.6	596	5.91	385	14.7	492	237
3839066	5	7.45	673	0.33	1.09	< 1	7.70	0.3	0.36	3.65	177	1.99	36.6	1.98	134	61.2
3839067	4	4.26	693	0.37	0.56	< 1	7.07	0.4	0.19	3.35	203	1.98	12.7	1.20	160	85.1
3839068	2	9.46	737	0.46	1.23	< 1	12.4	0.5	0.40	5.93	206	2.17	33.1	2.67	215	126
3839069	4	8.88	811	0.53	1.24	< 1	11.5	0.5	0.38	4.18	268	2.82	37.4	2.11	290	85.7
3839070	3	5.12	696	0.45	0.70	< 1	9.45	0.6	0.25	3.30	204	2.22	20.4	1.52	315	85.4
3839071	4	19.5	621	0.74	2.83	< 1	17.7	0.9	0.97	6.52	322	4.43	102	5.62	735	147
3839072	3	8.57	700	0.35	1.15	< 1	8.50	0.4	0.36	6.54	166	1.48	30.3	2.28	250	124
3839073	< 1	28.2	616	0.42	3.32	2	15.5	0.4	0.73	6.83	228	1.76	83.6	3.99	153	114
3839074	2	14.4	622	0.62	1.97	< 1	14.9	0.5	0.62	8.07	329	2.25	53.3	3.80	193	169
3839075	< 1	80.4	490	0.66	8.46	< 1	23.1	0.8	1.97	10.1	321	2.20	216	10.7	284	209
3839076	1	14.9	648	0.57	2.05	< 1	12.0	0.6	0.71	4.76	251	2.18	65.2	4.35	250	152
3839077	< 1	17.2	550	0.23	2.05	< 1	7.92	0.3	0.50	4.63	131	0.96	50.4	2.92	129	62.0
3839078	< 1	41.4	650	0.66	4.84	< 1	16.0	0.8	1.21	7.83	327	2.19	125	6.45	291	177
3839079	30	13.7	793	0.53	2.13	< 1	15.3	0.6	0.74	8.61	265	2.38	70.0	4.36	244	121
3839080	2	9.36	742	0.51	1.43	< 1	18.2	0.7	0.50	8.52	299	2.51	43.7	2.90	264	111
3839081	4	16.9	913	0.66	2.36	< 1	25.0	0.8	0.86	9.15	351	2.89	77.2	4.58	275	129
3839082	< 1	60.6	580	0.41	6.73	< 1	11.9	0.5	1.72	6.77	210	1.73	191	9.99	286	150
3839083	< 1	33.7	765	0.51	4.12	< 1	21.9	0.6	1.18	7.90	218	1.73	114	7.06	171	165
3839084	< 1	29.0	887	0.42	3.58	< 1	13.5	0.4	0.98	5.95	215	1.77	105	5.75	369	117
3839085	< 1	20.8	620	0.33	2.59	< 1	11.2	0.4	0.61	6.40	141	1.13	61.4	3.32	235	142
3839086	< 1	29.0	905	0.42	3.30	< 1	8.58	0.5	0.97	4.96	320	1.79	97.2	6.09	300	130
3839087	< 1	20.5	406	0.30	2.59	2	9.95	0.3	0.72	5.85	270	1.30	86.9	4.15	270	124
3839088	< 1	7.05	834	0.35	0.86	< 1	6.07	0.3	0.29	3.59	194	1.46	26.9	1.86	234	83.6
3839089	< 1	15.2	754	0.41	1.76	< 1	6.89	0.6	0.40	4.28	342	2.28	53.1	2.15	344	95.3
3839090	< 1	70.8	647	0.32	7.40	< 1	12.2	0.4	2.25	6.13	196	1.93	232	13.2	293	102

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839091	< 1	29.6	653	0.41	3.37	2	7.93	0.4	0.87	4.75	211	2.15	98.5	5.00	283	93.1
3839092	< 1	20.0	730	0.29	2.20	1	5.69	0.3	0.56	3.96	151	3.08	62.4	3.20	163	62.6
3839093	1	3.45	795	0.27	0.49	< 1	8.45	0.3	0.17	6.21	148	1.35	12.6	1.15	232	103
3839094	< 1	35.1	1020	0.53	4.46	< 1	16.4	0.6	1.26	7.27	261	2.26	124	7.24	376	195
3839095	< 1	41.9	568	0.26	5.49	3	9.02	0.3	1.61	7.48	224	5.41	168	9.52	294	127
3839096	3	9.84	1140	0.31	1.49	< 1	9.19	0.4	0.50	4.99	274	1.40	45.7	3.29	396	125
3839097	2	17.4	1210	0.55	2.62	< 1	18.7	0.6	0.91	9.35	332	2.19	78.2	5.50	651	192
3839098	3	5.39	1120	0.26	0.79	< 1	7.75	0.4	0.29	3.99	201	1.56	22.1	1.75	231	72.6
3839099	4	11.0	1580	0.53	1.59	< 1	12.7	0.7	0.56	7.03	395	4.71	46.6	3.45	585	146
3839100	< 1	61.1	1140	0.66	9.35	< 1	13.8	0.7	2.84	9.20	605	2.17	288	16.4	925	219
3839101	< 1	2.18	906	0.02	0.21	< 1	0.79	< 0.2	0.06	0.88	9	0.14	4.48	0.31	7	12.0
3839102	< 1	5.64	170	0.04	0.64	< 1	2.77	< 0.2	0.20	3.26	23	0.32	16.8	1.18	46	34.0
3839103	2	0.84	342	0.02	0.10	< 1	0.58	< 0.2	0.03	0.71	18	0.24	2.60	0.18	412	7.8
3839104	2	4.38	179	0.18	0.45	< 1	4.06	0.3	0.15	3.51	63	1.02	12.3	0.76	75	50.3
3839105	3	4.31	684	0.71	0.66	< 1	30.8	0.8	0.27	5.33	325	3.04	18.3	1.76	274	165
3839106	1	3.19	632	0.63	0.41	< 1	12.3	0.9	0.21	3.29	295	2.99	13.3	1.45	292	111
3839107	4	14.4	650	0.51	2.07	< 1	16.8	0.7	0.66	8.59	233	2.39	55.2	3.63	281	120
3839108	3	23.3	412	0.46	3.58	< 1	20.6	0.5	1.09	9.88	202	2.03	79.2	6.10	180	159
3839109	3	7.82	513	0.30	1.18	< 1	10.2	0.5	0.48	7.20	172	1.88	41.5	3.07	145	89.5
3839110	3	0.93	108	0.03	0.14	< 1	0.86	< 0.2	0.05	2.07	30	0.38	3.99	0.38	12	14.3
3839111	8	9.10	757	0.09	1.39	< 1	5.55	< 0.2	0.61	7.72	58	2.16	53.1	3.76	42	53.9
3839112	2	3.53	421	0.16	0.55	< 1	5.73	0.3	0.22	5.19	87	2.07	17.2	1.41	90	49.3
3839113	4	12.8	426	0.26	2.19	< 1	8.99	0.4	0.86	9.48	127	2.10	80.1	5.47	214	74.1
3839114	4	10.9	513	0.42	1.50	< 1	9.04	0.6	0.57	5.36	194	1.45	56.7	3.64	192	87.8
3839115	5	15.2	473	0.21	2.29	< 1	10.2	0.3	0.83	11.4	122	1.04	80.3	4.62	116	80.2
3839116	3	5.87	473	0.25	0.87	< 1	9.40	0.2	0.28	5.67	153	1.06	24.4	1.57	99	55.4
3839117	1	28.1	641	0.56	4.30	< 1	29.9	0.9	1.25	10.3	289	2.11	134	7.17	245	170
3839118	4	1.15	554	0.35	0.21	< 1	3.25	0.4	0.11	2.70	177	1.49	6.17	0.67	95	47.7
3839119	1	6.05	423	0.29	0.94	< 1	17.0	0.4	0.34	4.96	164	1.15	24.2	2.05	111	84.4
3839120	3	35.4	537	0.42	5.46	< 1	19.9	0.8	2.17	8.23	220	1.41	204	13.0	227	156
3839121	< 1	82.7	646	0.46	12.9	< 1	24.1	0.7	4.86	15.2	203	1.94	491	28.2	168	185
3839122	6	20.4	613	0.30	3.09	< 1	13.0	0.6	1.31	4.68	199	1.33	110	7.75	155	124
3839123	9	12.8	528	0.12	1.94	< 1	4.32	0.2	0.74	12.6	65	2.02	71.9	4.38	50	39.6
3839124	5	7.60	586	0.05	1.35	< 1	3.19	< 0.2	0.55	5.65	56	1.59	48.5	3.28	48	21.4
3839125	7	4.66	563	0.13	0.78	< 1	3.35	0.3	0.30	3.57	60	1.95	26.0	1.87	46	34.1
3839126	6	11.5	651	0.33	1.85	< 1	11.6	0.7	0.82	3.18	179	1.70	68.0	4.96	200	96.2
3839127	5	3.26	221	0.14	0.47	< 1	4.37	0.2	0.18	3.74	65	1.09	13.3	1.05	51	48.7
3839128	4	18.0	776	1.23	2.98	< 1	61.9	2.1	1.04	9.69	692	4.45	73.3	6.27	495	376
3839129	5	21.6	638	1.28	3.61	< 1	49.1	1.6	1.08	9.87	619	5.59	83.2	6.00	455	256
3839130	9	25.1	719	1.96	4.50	2	83.3	2.5	1.28	16.5	912	7.48	107	7.38	700	394
3839131	3	11.5	575	0.96	1.97	< 1	40.8	1.3	0.61	7.70	465	3.47	48.2	4.11	372	198
3839132	5	11.2	590	0.93	1.69	< 1	44.5	1.2	0.62	6.78	484	4.14	49.0	3.72	384	197
3839133	4	8.71	636	0.55	1.56	< 1	10.8	0.6	0.48	4.06	263	3.25	45.5	2.80	365	82.9
3839134	1	6.99	422	0.11	0.78	< 1	4.57	0.2	0.21	2.93	43	0.89	18.4	1.34	55	45.4
3839135	2	3.90	1190	0.01	0.34	< 1	1.57	0.2	0.08	1.56	9	0.23	7.48	0.44	15	20.6
3839136	< 1	21.0	575	0.52	3.36	< 1	18.5	0.7	1.09	8.46	262	2.25	107	6.47	213	126
3839137	3	7.43	650	0.74	1.06	< 1	25.2	0.9	0.40	5.51	388	2.74	29.1	2.38	320	149
3839138	1	13.8	634	0.59	2.01	< 1	28.9	0.8	0.65	5.54	341	2.55	57.5	3.76	280	135
3839139	< 1	28.6	513	0.53	3.86	< 1	25.4	0.7	1.28	7.01	257	2.00	124	7.35	264	152
3839140	2	16.3	592	0.68	2.27	< 1	27.6	0.8	0.80	6.84	319	2.12	76.1	4.89	221	141

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839141	< 1	14.5	600	0.59	2.66	< 1	23.8	0.8	0.86	10.4	328	2.26	70.1	4.91	352	143
3839142	< 1	56.0	627	0.52	8.87	< 1	15.9	0.6	1.95	10.9	269	2.63	284	9.36	327	111
3839143	2	7.90	760	0.58	1.25	< 1	20.9	0.8	0.44	6.65	283	1.82	40.2	2.61	302	153
3839144	< 1	42.6	739	0.68	7.33	< 1	26.5	0.7	1.79	13.5	300	2.52	227	9.10	265	135
3839145	1	14.2	701	0.26	2.33	< 1	8.69	0.3	0.77	5.38	125	1.21	85.6	4.15	149	56.6
3839146	< 1	4.01	696	0.07	0.59	< 1	2.90	< 0.2	0.16	2.39	47	0.58	17.9	0.87	78	23.9
3839147	< 1	20.2	904	0.52	2.45	< 1	13.1	0.7	0.59	5.84	249	1.82	57.9	3.11	296	122
3839148	3	3.76	1310	0.32	0.54	< 1	5.80	0.3	0.19	2.78	134	1.39	17.0	1.05	134	62.9
3839149	< 1	39.8	787	0.55	4.48	< 1	13.0	0.4	1.11	7.01	209	1.61	118	6.03	157	104
3839150	< 1	18.3	893	0.61	2.13	< 1	13.5	0.5	0.49	5.80	207	1.85	48.2	2.88	179	119
3839151	< 1	41.9	822	0.82	4.82	1	15.5	0.7	1.09	8.03	316	2.50	113	6.18	547	167
3839152	2	7.13	1300	0.66	1.17	< 1	14.2	0.6	0.42	5.86	282	2.31	36.5	2.68	562	125
3839153	< 1	78.8	450	0.65	8.93	< 1	23.6	0.7	2.54	11.5	348	2.37	239	14.3	425	247
3839154	< 1	38.8	512	0.67	4.86	< 1	17.8	0.7	1.61	8.83	337	2.17	149	9.41	607	185
3839155	< 1	15.1	907	0.83	2.44	< 1	17.4	0.8	0.89	6.87	409	3.09	74.9	5.16	543	161
3839156	< 1	48.1	555	0.46	6.46	< 1	12.1	0.4	2.23	8.08	227	1.80	192	12.7	444	157
3839157	< 1	28.7	347	0.18	3.99	< 1	7.69	< 0.2	1.41	5.94	122	1.21	123	8.08	147	73.7
3839158	< 1	4.86	982	0.42	0.78	< 1	7.12	0.5	0.25	3.69	306	1.93	20.0	1.35	238	70.4
3839159	< 1	28.6	346	0.35	3.51	< 1	11.1	0.4	0.98	6.72	213	1.75	104	5.61	289	106
3839160	< 1	71.1	1190	0.72	12.1	< 1	24.7	0.8	3.95	16.0	454	2.72	359	21.9	777	237
3839161	< 1	19.9	1070	0.35	3.28	< 1	9.10	0.4	1.08	7.22	297	1.54	97.0	5.85	502	119
3839162	< 1	43.7	734	0.67	7.34	< 1	21.0	0.7	2.36	7.58	503	2.35	204	13.0	579	170
3839163	2	7.92	840	0.67	1.31	< 1	16.3	0.7	0.45	4.97	410	2.63	40.0	2.53	433	112
3839164	< 1	13.2	719	0.56	2.06	< 1	11.6	0.6	0.69	4.59	289	1.74	63.9	4.15	529	105
3839165	< 1	8.17	1140	0.84	1.40	< 1	16.9	0.9	0.53	6.17	422	2.45	39.7	3.33	632	168
3839166	2	5.04	724	0.28	0.83	< 1	4.83	0.3	0.29	4.51	179	0.74	24.0	1.70	345	63.6
3839167	< 1	9.36	775	0.31	1.45	< 1	5.33	0.3	0.38	4.31	171	1.59	35.3	2.26	298	72.9
3839168	2	5.68	862	0.23	0.81	< 1	3.10	< 0.2	0.20	3.36	147	1.11	20.1	1.13	141	53.9
3839169	2	16.9	644	0.36	2.32	< 1	6.72	0.3	0.50	4.48	131	1.01	51.2	2.52	183	92.5
3839170	4	18.0	869	0.62	2.94	< 1	12.8	0.5	0.88	5.59	320	2.24	85.1	4.72	336	150
3839201	3	15.1	1000	0.37	2.39	< 1	6.32	0.3	0.48	4.56	185	1.55	55.2	2.58	241	83.5
3839202	1	32.9	833	0.93	5.31	< 1	14.5	0.7	1.25	6.40	416	1.46	125	6.92	1010	190
3839203	2	12.7	734	0.42	1.83	< 1	6.27	0.3	0.46	4.61	284	1.00	39.9	2.41	417	99.9
3839204	< 1	12.0	350	0.32	1.80	< 1	7.61	0.3	0.36	4.19	123	0.74	32.3	1.97	203	84.2
3839205	3	12.7	747	0.57	2.07	< 1	9.09	0.4	0.53	4.79	200	1.65	50.1	3.02	356	134
3839206	4	9.96	1080	1.30	1.64	1	26.2	1.1	0.46	6.57	551	6.88	38.5	2.93	432	262
3839207	3	11.9	1120	0.88	2.25	< 1	26.0	1.0	0.58	7.35	473	3.01	51.7	3.35	293	242
3839208	3	63.0	627	1.57	9.44	2	67.8	1.4	2.50	10.7	633	4.24	249	13.5	418	278
3839209	1	6.97	579	0.67	1.17	1	12.0	0.5	0.27	4.83	289	1.61	22.3	1.48	319	146
3839210	2	5.00	569	0.47	0.90	< 1	5.85	0.3	0.24	3.18	213	1.49	19.6	1.20	136	66.3
3839211	< 1	31.0	658	0.53	4.52	< 1	18.6	0.5	1.05	5.34	244	1.53	111	5.88	199	130
3839212	3	8.91	811	0.59	1.35	< 1	11.8	0.5	0.33	3.52	244	1.39	32.6	1.93	164	102
3839213	1	33.3	868	1.74	4.87	< 1	32.3	1.4	1.17	7.55	685	3.52	116	6.61	537	206
3839214	2	8.69	918	0.68	1.45	< 1	13.8	0.5	0.44	5.58	290	2.10	36.4	2.24	348	103
3839215	2	8.08	745	0.46	1.33	< 1	7.38	0.4	0.39	3.89	194	1.43	33.7	2.02	246	70.9
3839216	4	46.4	981	0.73	8.05	< 1	14.6	0.7	1.97	16.4	384	1.94	255	10.6	412	142
3839217	3	17.9	849	0.97	2.77	< 1	11.9	0.8	0.87	5.22	457	2.24	79.3	5.39	711	162
3839218	1	7.48	963	0.59	1.15	< 1	5.49	0.4	0.31	3.54	299	1.62	28.1	1.73	277	85.5
3839219	< 1	51.6	752	0.71	7.38	< 1	21.0	0.4	1.52	7.35	258	1.39	159	8.24	338	195
3839220	1	12.1	793	0.50	1.90	< 1	8.51	0.3	0.40	4.86	195	1.41	40.1	2.20	353	135

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839221	< 1	8.58	921	0.84	1.33	< 1	9.56	0.5	0.35	4.95	308	1.72	28.0	2.09	403	159
3839222	2	16.4	1330	0.58	2.64	< 1	11.2	0.5	0.59	4.86	202	1.29	53.9	3.31	209	150
3839223	< 1	12.3	1000	0.85	1.94	< 1	12.7	0.4	0.45	5.89	321	1.54	40.4	2.52	340	165
3839224	< 1	27.9	616	0.47	3.80	< 1	13.2	0.3	0.69	7.50	160	0.97	70.5	3.61	449	161
3839225	3	28.6	1180	1.73	4.50	< 1	27.4	1.0	1.15	6.95	550	3.03	106	6.53	497	263
3839226	1	17.4	1210	0.89	2.47	< 1	13.8	0.7	0.70	5.20	322	1.85	61.6	3.88	313	148
3839227	< 1	17.0	561	0.99	2.81	< 1	23.2	0.9	0.80	7.53	349	2.50	68.7	4.98	382	235
3839228	< 1	29.0	744	0.79	4.37	< 1	21.3	0.7	1.19	7.18	344	1.84	110	6.65	288	159
3839229	< 1	56.2	776	1.11	8.20	< 1	30.0	1.3	1.74	8.37	510	2.64	176	9.48	430	240
3839230	< 1	20.7	941	0.96	4.40	< 1	31.5	1.1	0.95	16.6	408	2.41	102	5.09	318	194
3839231	< 1	51.8	680	0.60	9.76	< 1	29.8	0.6	2.48	10.5	247	1.57	262	13.5	229	146
3839232	< 1	64.3	768	0.93	12.0	< 1	32.7	0.7	2.90	13.1	341	2.35	315	14.8	315	180
3839233	< 1	62.0	720	0.66	12.3	< 1	30.2	0.5	2.36	18.2	226	1.66	287	12.4	159	157
3839234	2	4.93	655	0.38	1.01	< 1	11.6	0.3	0.31	6.47	158	1.25	23.1	1.89	104	88.2
3839235	< 1	24.7	475	0.52	3.78	< 1	20.6	0.5	0.91	7.56	240	1.44	76.9	5.30	183	136
3839236	< 1	7.57	316	0.54	1.49	< 1	20.3	0.6	0.43	6.21	236	1.50	31.5	2.68	201	145
3839237	< 1	15.0	440	0.48	2.45	< 1	15.0	0.4	0.72	7.04	171	1.65	60.3	4.58	140	124
3839238	< 1	18.8	617	0.57	3.67	< 1	18.4	0.4	1.02	7.32	212	1.97	118	5.41	158	94.7
3839239	2	25.8	577	0.30	3.86	< 1	19.4	0.4	1.18	10.7	138	1.61	131	7.08	138	85.4
3839240	< 1	34.5	235	0.19	4.88	< 1	12.4	0.2	1.35	10.4	131	1.13	122	7.31	71	73.1
3839241	< 1	12.6	294	0.11	1.67	< 1	8.33	< 0.2	0.47	3.18	80	0.44	44.0	2.95	38	56.7
3839242	< 1	232	667	0.65	38.0	< 1	26.3	0.6	12.8	18.4	270	2.56	1240	70.4	239	137
3839243	< 1	33.9	640	0.37	4.90	< 1	26.8	0.4	1.41	9.87	177	1.48	143	7.98	122	101
3839244	< 1	63.0	586	0.52	9.27	< 1	24.0	0.6	2.56	13.3	237	2.73	287	13.6	227	117
3839245	< 1	30.6	775	0.75	4.60	< 1	35.3	0.9	1.40	9.15	373	3.09	145	7.75	280	201
3839246	3	18.5	825	0.65	2.77	< 1	39.2	0.7	0.68	12.0	356	2.58	73.0	3.69	215	179
3839247	< 1	19.1	934	0.64	2.42	< 1	17.4	0.8	0.75	6.33	380	2.63	73.6	4.28	317	127
3839248	< 1	18.2	696	0.50	2.83	< 1	12.2	0.3	0.96	5.58	216	1.91	104	5.45	198	105
3839249	1	17.1	721	0.83	2.47	< 1	25.6	0.9	0.82	6.13	387	2.71	77.3	4.69	357	137
3839250	1	3.28	1010	0.40	0.46	< 1	7.26	0.4	0.19	2.62	194	1.49	16.2	1.17	143	77.9
3839251	3	15.7	392	0.21	1.95	3	6.25	0.3	0.66	9.03	139	166	57.6	3.63	229	75.5
3839252	< 1	7.76	556	0.46	1.13	< 1	12.4	0.5	0.38	4.63	173	4.43	28.0	2.20	217	127
3839253	< 1	27.4	658	0.51	3.32	< 1	11.7	0.5	0.93	5.68	189	1.76	90.3	5.17	271	117
3839254	< 1	17.4	643	0.61	2.58	< 1	10.9	0.6	0.83	4.76	240	1.54	77.2	4.33	348	117
3839255	1	5.02	774	0.37	0.70	< 1	6.19	0.4	0.22	2.64	181	1.34	22.8	1.61	206	76.7
3839256	< 1	7.98	707	0.66	1.16	< 1	14.3	0.7	0.42	4.44	294	1.93	36.8	2.46	298	103
3839257	< 1	8.05	733	0.62	1.11	< 1	11.1	0.6	0.38	4.24	316	1.98	35.3	2.36	316	104
3839258	< 1	29.4	451	0.41	3.54	< 1	8.26	0.4	0.89	3.42	273	1.06	104	4.92	293	90.4
3839259	< 1	20.6	602	0.35	2.35	< 1	7.34	0.4	0.54	3.79	198	1.37	61.6	3.18	189	91.4
3839261	< 1	8.20	692	0.36	1.24	< 1	9.02	0.3	0.38	5.33	206	8.73	34.5	2.41	240	104
3839262	< 1	12.8	957	0.29	2.32	< 1	7.25	0.4	0.72	7.10	334	0.86	62.1	4.20	470	89.1
3839263	1	5.88	1070	0.34	0.84	< 1	8.43	0.4	0.31	3.67	245	1.57	23.9	1.75	433	106
3839264	< 1	3.57	839	0.27	0.59	< 1	6.44	0.3	0.22	3.03	207	1.05	18.1	1.26	319	68.6
3839265	< 1	20.2	549	0.38	2.79	< 1	13.2	0.5	0.80	5.26	152	1.62	76.4	4.36	291	97.7
3839266	< 1	30.8	676	0.34	4.85	< 1	16.0	0.3	1.39	11.2	202	1.71	138	7.82	300	139
3839267	< 1	15.3	672	0.30	2.35	< 1	8.86	0.3	0.84	6.84	179	1.82	74.4	4.61	256	109
3839268	< 1	11.0	717	0.26	1.40	< 1	7.51	0.3	0.39	4.67	133	1.40	34.8	2.06	187	79.0
3839269	< 1	6.53	496	0.28	0.97	< 1	5.35	0.3	0.38	4.14	144	1.57	30.2	2.31	184	77.6
3839270	< 1	33.5	396	0.38	4.48	< 1	12.9	0.3	1.36	6.10	160	2.04	127	7.48	248	138
3839271	< 1	10.8	808	0.43	1.64	< 1	13.2	0.4	0.53	5.89	303	1.36	41.1	3.00	413	133

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839272	< 1	33.4	881	0.87	4.92	< 1	22.9	0.8	1.79	8.57	539	1.92	155	9.94	866	175
3839273	< 1	9.42	789	0.38	1.30	< 1	8.87	0.3	0.45	3.85	227	1.07	38.4	2.58	322	88.0
3839274	< 1	7.57	952	0.32	1.00	< 1	7.96	0.4	0.33	3.91	239	1.04	27.2	1.87	438	102
3839275	< 1	4.94	1020	0.28	0.75	< 1	5.39	0.3	0.24	2.54	167	1.09	22.9	1.41	262	58.4
3839276	< 1	13.4	735	0.40	1.76	< 1	9.91	0.4	0.53	3.84	213	1.73	53.2	2.98	365	88.1
3839277	< 1	7.09	904	0.22	0.89	< 1	4.00	< 0.2	0.26	3.37	121	0.88	26.6	1.47	177	61.5
3839278	< 1	3.89	717	0.40	0.50	< 1	6.68	0.4	0.18	3.01	197	1.32	15.8	1.10	235	77.1
3839279	< 1	12.4	871	0.59	1.64	< 1	9.89	0.5	0.52	4.29	245	2.22	49.2	3.00	329	110
3839280	2	4.33	896	0.36	0.55	< 1	5.91	0.3	0.19	2.91	148	1.92	17.9	1.13	158	70.3
3839281	< 1	34.4	616	0.43	4.04	< 1	9.88	0.4	0.94	5.39	153	1.24	100	4.91	349	92.2
3839282	2	13.7	952	0.41	2.02	< 1	9.02	0.5	0.62	3.72	214	1.24	58.6	3.55	463	81.1
3839283	1	25.5	585	0.41	3.35	< 1	10.1	0.4	0.71	5.29	260	1.75	75.2	4.12	422	110
3839284	< 1	12.3	746	0.45	1.42	< 1	9.58	0.5	0.38	4.95	206	1.55	36.0	2.27	326	115
3839285	< 1	26.8	384	0.20	2.98	< 1	9.26	0.3	0.65	6.20	85	0.99	61.4	3.50	154	104
3839286	4	4.74	735	0.42	0.66	< 1	8.31	0.5	0.23	4.15	200	1.69	16.4	1.17	268	101
3839287	3	9.97	857	0.65	1.31	< 1	9.30	0.7	0.49	4.55	312	2.48	42.8	2.88	310	116
3839288	1	2.35	489	0.08	0.33	< 1	1.93	< 0.2	0.11	1.29	55	0.77	11.5	1.12	37	25.0
3839289	< 1	11.5	330	0.12	1.59	< 1	3.81	< 0.2	0.47	1.70	73	0.45	50.3	2.47	49	32.7
3839290	2	9.21	387	0.14	1.24	< 1	5.20	< 0.2	0.32	2.34	72	0.53	36.5	1.56	54	42.1
3839291	< 1	14.2	380	0.14	1.91	< 1	7.33	< 0.2	0.60	2.67	83	0.75	62.4	3.42	63	59.2
3839292	< 1	11.4	350	0.16	1.99	< 1	5.52	< 0.2	0.72	2.75	85	0.68	67.5	4.09	76	48.7
3839293	2	6.95	307	0.15	0.96	< 1	4.64	< 0.2	0.28	2.10	82	0.53	27.4	1.57	62	39.5
3839294	2	5.27	459	0.18	0.64	< 1	4.52	0.2	0.18	2.53	83	0.88	18.8	1.02	72	48.7
3839295	< 1	11.9	410	0.06	1.64	< 1	5.07	< 0.2	0.43	2.76	38	0.23	41.5	2.38	29	46.2
3839296	2	7.23	825	0.42	0.87	< 1	4.30	0.3	0.25	3.15	165	1.94	27.0	1.52	117	63.4
3839297	< 1	29.5	562	0.20	3.60	< 1	8.31	< 0.2	0.83	5.66	131	0.67	94.8	4.51	108	84.7
3839298	< 1	33.4	479	0.38	3.94	< 1	12.7	0.3	0.92	5.80	208	1.12	103	5.24	314	152
3839299	3	17.9	863	0.57	2.18	< 1	10.2	0.5	0.70	6.48	203	1.56	65.0	4.16	391	145
3839300	3	10.9	1160	0.99	1.45	< 1	13.0	0.8	0.44	4.67	422	3.21	43.7	2.54	557	141
3839301	< 1	52.3	881	0.58	5.79	< 1	13.5	0.6	1.91	4.48	427	1.48	182	10.5	610	149
3839302	3	7.47	1020	0.66	0.87	< 1	8.48	0.6	0.33	3.66	327	2.30	28.1	1.86	387	111
3839303	4	11.7	753	0.62	1.74	< 1	13.9	0.5	0.57	4.57	263	2.29	59.1	3.20	240	82.6
3839304	1	10.2	742	0.51	1.37	< 1	10.7	0.4	0.48	4.16	204	1.48	41.8	2.59	322	111
3839305	3	2.45	1030	0.40	0.35	< 1	7.48	0.4	0.13	3.11	206	1.49	11.2	0.96	212	59.3
3839306	2	12.2	812	0.61	1.83	< 1	16.7	0.6	0.64	5.02	269	1.89	51.6	3.89	387	153
3839307	< 1	9.11	779	0.59	1.28	< 1	13.9	0.6	0.43	5.11	272	1.29	36.2	2.65	412	126
3839308	< 1	9.63	838	0.34	1.30	< 1	11.7	0.4	0.42	4.71	247	0.98	39.6	2.81	329	85.3
3839309	1	8.22	1080	0.47	1.30	< 1	11.1	0.5	0.45	6.69	296	1.29	36.2	2.64	422	112
3839351	< 1	31.3	734	0.45	3.44	< 1	10.8	0.5	0.80	5.74	215	1.44	85.7	4.54	283	119
3839352	< 1	4.89	886	0.43	0.84	< 1	6.85	0.4	0.29	3.43	231	1.43	27.5	1.79	203	63.8
3839401	< 1	9.53	558	0.18	1.39	< 1	13.0	< 0.2	0.45	6.40	110	1.10	38.5	2.70	211	50.4
3839402	5	9.14	582	0.46	1.28	< 1	12.8	0.5	0.46	5.81	218	2.25	35.8	2.55	339	88.5
3839403	< 1	20.6	483	0.26	2.77	< 1	23.3	0.3	0.85	9.98	124	1.77	74.1	4.66	611	88.5
3839404	2	32.0	776	0.65	4.61	< 1	30.2	1.0	1.29	17.9	417	6.65	114	7.42	383	121
3839405	3	12.1	736	0.83	1.95	< 1	41.2	1.0	0.58	7.23	444	5.80	46.4	3.99	343	187
3839406	< 1	61.5	471	0.68	8.89	< 1	43.5	0.6	2.82	10.3	318	4.00	253	15.9	196	225
3839407	2	5.48	784	0.53	0.81	< 1	34.6	0.8	0.30	6.89	208	4.99	21.0	1.79	299	135
3839408	3	32.5	520	0.73	5.03	< 1	51.1	1.0	1.55	8.79	371	6.60	138	9.01	382	144
3839409	2	27.8	726	0.52	4.10	1	23.2	0.8	1.31	11.1	389	4.63	124	7.47	399	117
3839410	< 1	12.5	527	0.63	1.72	< 1	25.4	0.7	0.52	5.96	263	2.68	42.9	3.12	403	142

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839411	< 1	12.4	494	0.50	1.87	< 1	17.4	0.6	0.60	5.34	270	2.36	49.0	3.81	254	81.4
3839412	3	6.24	542	0.42	0.90	< 1	9.60	0.5	0.30	4.15	232	1.72	25.4	1.71	185	59.6
3839413	6	6.31	749	0.62	1.11	< 1	14.7	0.6	0.38	4.76	287	2.63	34.4	2.22	288	68.2
3839414	4	3.48	578	0.38	0.58	< 1	9.29	0.4	0.18	2.93	190	1.69	17.9	1.00	213	50.2
3839415	7	21.2	530	0.42	3.44	< 1	20.9	0.4	0.93	6.47	212	2.24	90.9	4.96	247	68.3
3839416	9	20.5	638	0.72	3.39	1	43.6	0.7	0.98	10.00	341	4.28	93.2	5.85	324	106
3839417	6	15.3	526	0.65	2.40	< 1	64.5	0.7	0.74	7.02	322	3.80	55.7	4.42	303	147
3839418	12	62.5	642	0.56	10.4	< 1	69.8	0.6	3.18	16.7	363	4.14	280	18.2	478	112
3839419	14	60.6	848	0.55	9.24	1	77.2	0.7	2.77	18.3	424	5.24	263	16.1	503	129
3839420	6	9.14	716	0.30	1.39	< 1	16.9	0.3	0.44	7.18	189	2.34	36.2	2.47	202	78.3
3839421	1	43.9	417	0.47	7.16	< 1	24.4	0.4	2.25	6.13	197	1.85	222	12.4	233	76.2
3839422	2	22.4	740	0.36	3.16	< 1	28.1	0.4	0.82	6.55	164	2.88	73.4	4.64	213	114
3839423	9	21.0	600	0.91	3.54	< 1	48.8	1.1	0.96	10.4	435	3.80	87.0	4.84	511	155
3839424	10	36.8	725	0.59	5.21	< 1	44.1	0.5	1.56	13.3	299	2.84	159	8.99	478	120
3839425	6	27.0	794	1.02	4.36	< 1	71.0	1.0	1.56	12.3	415	4.56	131	9.59	562	219
3839426	6	32.7	868	1.38	5.37	< 1	91.3	1.3	1.87	15.2	520	5.76	154	11.4	683	269
3839427	5	15.4	565	0.68	2.59	< 1	30.7	1.0	0.85	7.78	264	2.88	62.7	4.92	449	135
3839428	3	32.3	427	0.70	5.57	2	33.7	0.7	1.68	8.32	272	2.92	148	8.78	336	135
3839429	5	30.2	665	1.30	4.90	2	48.6	1.5	1.57	8.41	490	4.54	142	8.95	734	195
3839430	2	19.3	457	0.52	3.32	< 1	26.5	0.9	1.04	9.02	350	3.88	93.4	6.07	429	101
3839431	5	10.3	716	0.29	1.40	< 1	23.4	0.4	0.45	7.16	218	3.06	40.8	2.72	359	72.7
3839432	2	9.34	749	0.77	1.73	< 1	32.8	1.0	0.59	8.10	422	3.87	44.2	3.56	514	127
3839433	3	19.9	537	0.59	3.34	< 1	24.4	0.6	1.04	7.01	335	4.21	95.3	5.92	446	91.3
3839434	< 1	27.2	607	0.29	4.46	< 1	16.7	0.5	1.61	6.92	220	1.93	160	9.18	219	57.6
3839435	3	6.87	512	0.34	1.09	< 1	9.11	0.4	0.36	3.88	203	1.79	32.2	2.13	286	48.0
3839436	< 1	2.16	90.2	0.07	0.28	< 1	2.02	< 0.2	0.08	2.44	20	0.49	5.61	0.46	52	24.6
3839437	< 1	9.63	866	0.31	1.62	< 1	16.7	0.4	0.54	8.96	203	3.27	46.1	2.98	260	69.3
3839438	2	11.5	697	0.62	2.04	< 1	27.1	0.7	0.66	9.29	315	4.28	49.3	4.03	348	110
3839439	3	5.96	966	0.81	1.06	< 1	29.8	0.9	0.42	6.33	422	5.24	30.8	2.61	472	107
3839440	< 1	264	446	1.07	44.4	< 1	65.8	1.8	11.9	19.6	586	4.40	1110	62.6	504	177
3839441	< 1	20.2	646	1.66	3.74	2	40.2	1.6	1.13	9.75	598	5.32	101	6.08	740	195
3839442	2	5.40	353	0.24	0.72	< 1	7.13	0.3	0.23	5.13	115	1.29	19.3	1.36	166	60.8
3839443	< 1	9.30	376	0.21	1.30	< 1	8.39	0.2	0.39	6.67	84	1.09	36.6	2.41	301	68.3
3839444	2	1.47	191	0.04	0.17	< 1	1.32	< 0.2	0.04	1.31	14	0.24	3.20	0.24	37	16.3
3839445	1	1.50	195	0.06	0.18	< 1	1.77	< 0.2	0.05	2.62	12	0.39	4.00	0.29	116	25.6
3839446	5	4.74	619	0.79	0.65	< 1	16.1	1.0	0.29	4.27	294	1.97	19.7	1.90	395	124
3839447	9	11.3	660	0.62	1.76	< 1	12.0	0.8	0.67	5.96	250	1.77	61.4	3.94	410	101
3839448	3	6.22	412	0.36	0.76	< 1	10.7	0.3	0.29	5.36	97	1.93	21.7	2.02	129	112
3839449	3	15.1	512	0.56	2.22	< 1	14.0	0.6	0.88	5.95	271	1.92	80.0	5.43	228	93.4
3839450	6	33.2	782	0.61	5.42	< 1	22.2	0.8	2.10	11.1	195	2.76	208	13.0	255	166
3839451	12	30.8	927	1.07	4.28	< 1	75.6	1.2	1.39	15.0	463	3.90	117	8.40	639	218
3839452	5	35.1	762	0.95	5.51	< 1	38.7	1.0	1.73	13.4	257	2.73	149	9.64	479	261
3839453	8	30.1	774	0.47	4.44	< 1	31.0	0.7	1.46	14.0	175	1.71	126	8.36	500	186
3839454	< 1	38.5	759	0.92	5.86	< 1	52.8	1.1	1.76	10.4	383	3.24	168	10.5	505	195
3839455	4	33.2	722	0.89	5.03	1	42.0	1.5	1.94	9.22	400	3.70	164	10.9	510	216
3839456	3	29.6	567	0.52	3.81	< 1	30.5	0.8	1.33	9.50	264	2.97	116	7.47	424	125
3839457	1	10.4	428	0.16	1.40	< 1	14.0	0.6	0.46	6.60	176	2.25	37.6	2.54	194	55.5
3839458	3	93.9	676	0.77	12.7	< 1	36.2	1.1	4.38	13.0	382	3.66	429	25.2	717	150
3839459	21	174	442	0.78	21.2	< 1	84.3	1.1	6.82	19.2	428	3.67	604	39.8	554	142
3839460	2	48.6	729	0.99	6.86	< 1	34.8	1.3	2.68	9.86	452	3.99	263	14.9	518	150

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839461	1	3.60	495	0.07	0.30	< 1	2.94	< 0.2	0.10	1.82	19	0.33	8.44	0.61	44	37.9
3839462	3	12.1	664	0.77	1.65	< 1	13.4	1.1	0.65	3.99	409	2.43	57.4	3.55	335	125
3839463	1	14.1	362	0.14	1.83	< 1	10.6	0.3	0.63	7.65	72	1.43	61.1	3.54	293	60.5
3839464	4	4.80	695	0.44	0.71	< 1	17.3	0.6	0.32	3.63	243	2.46	20.5	1.99	259	81.0
3839465	< 1	49.6	650	0.76	7.57	< 1	32.5	1.1	2.31	9.54	412	4.12	240	13.0	487	139
3839466	2	11.5	542	0.24	1.63	< 1	8.42	< 0.2	0.62	4.74	124	1.39	75.3	3.20	200	48.3
3839467	4	21.4	794	0.33	3.03	< 1	14.5	0.5	1.03	11.7	291	1.72	95.5	6.25	237	91.4
3839468	< 1	151	649	0.86	23.5	< 1	43.3	1.3	6.88	24.5	457	4.04	653	37.7	581	189
3839469	2	14.6	652	0.36	2.10	< 1	14.5	0.5	0.67	6.76	226	1.96	67.3	3.62	269	88.2
3839470	2	15.9	553	0.45	1.89	< 1	12.5	0.8	0.54	4.91	191	2.47	53.0	2.74	360	105
3839471	1	6.16	248	0.12	0.78	< 1	3.62	< 0.2	0.25	4.61	34	0.79	23.1	1.35	169	44.1
3839472	2	6.30	363	0.12	0.79	< 1	5.64	0.2	0.26	3.70	50	0.95	23.2	1.50	318	69.2
3839473	10	3.21	689	0.34	0.47	< 1	8.52	0.4	0.20	3.47	190	2.14	16.4	1.23	246	66.4
3839474	3	10.5	320	0.17	1.41	< 1	8.52	0.3	0.48	6.24	92	1.47	45.3	2.89	279	68.2
3839475	4	55.4	685	0.76	7.83	< 1	32.4	1.0	2.59	8.59	330	3.86	265	13.7	338	155
3839476	9	14.8	709	0.34	2.11	< 1	16.8	0.6	0.81	3.86	206	2.22	61.0	4.75	183	132
3839477	8	6.34	826	0.06	0.82	< 1	2.96	< 0.2	0.35	8.18	28	1.42	30.6	2.02	108	45.4
3839478	1	5.23	478	0.32	0.70	< 1	12.3	0.8	0.37	5.22	178	1.20	25.1	2.34	225	123
3839479	2	6.24	452	0.10	0.94	< 1	3.42	0.2	0.40	2.99	79	0.98	36.9	2.39	80	38.5
3839480	6	1.82	759	0.02	0.27	< 1	1.03	< 0.2	0.12	6.02	22	0.85	10.6	0.70	57	12.7
3839481	6	25.2	645	1.69	3.95	2	60.9	2.2	1.19	14.4	699	8.05	115	6.51	753	290
3839482	2	5.35	725	0.25	0.90	< 1	8.38	0.5	0.32	2.39	210	8.72	27.8	2.01	271	48.1
3839483	2	47.4	761	1.14	8.58	< 1	79.0	1.7	2.32	17.8	626	10.9	278	13.0	489	360
3839484	4	12.2	512	0.24	1.52	< 1	11.4	0.4	0.55	5.26	147	3.46	51.4	3.36	171	85.6
3839485	4	20.6	505	0.39	3.05	< 1	16.1	0.6	1.16	6.18	198	3.79	112	6.63	265	119
3839486	4	16.0	571	0.42	2.22	< 1	17.2	0.7	1.07	3.56	232	3.01	87.3	6.20	244	146
3839487	5	12.0	694	0.70	1.84	< 1	23.6	1.1	0.64	5.99	352	3.30	53.7	3.76	430	148
3839488	7	13.6	546	0.45	2.01	< 1	13.3	0.7	0.71	4.95	210	2.26	59.3	4.30	235	104
3839489	4	8.92	663	0.32	1.26	< 1	13.4	0.6	0.62	3.47	182	3.38	45.0	3.77	311	109
3839490	10	12.2	601	0.26	1.73	< 1	9.02	0.5	0.68	4.44	129	2.21	62.4	4.27	152	76.5
3839491	5	10.2	623	0.32	1.41	< 1	12.1	0.6	0.64	2.69	175	1.70	54.6	3.88	155	93.4
3839492	8	14.3	547	0.32	1.99	< 1	11.6	0.6	0.85	5.46	149	1.99	78.0	5.43	181	110
3839493	7	8.86	655	0.26	1.28	< 1	9.19	0.5	0.56	4.32	140	1.97	47.3	3.35	172	87.5
3839494	3	30.6	497	0.29	4.81	< 1	14.4	0.6	2.08	9.11	134	1.83	188	12.0	209	131
3839495	7	14.8	631	0.17	2.20	< 1	8.24	0.5	0.96	7.21	79	1.78	83.8	5.52	109	89.0
3839496	4	43.5	480	0.35	7.51	< 1	18.3	0.8	3.32	8.08	162	1.54	301	19.3	236	166
3839497	3	19.1	798	1.06	2.68	< 1	35.3	1.3	1.28	8.52	115	3.21	97.7	8.15	401	250
3839498	4	17.8	675	0.88	2.57	< 1	28.6	1.2	1.28	5.86	140	2.75	99.6	7.86	344	212
3839499	5	39.8	538	1.01	6.34	1	41.7	1.8	2.45	21.6	135	3.44	201	14.5	426	286
3839500	2	22.8	454	0.37	3.23	< 1	28.5	0.5	0.99	9.76	87	1.48	87.0	5.75	144	130

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
TILL-2 Meas			65.3	0.22	506	16.4		1290			958	68.1	96	19.2	2590		38.4	20.9	88				6.84
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			64.8	0.30	762	25.9		1660			1380	78.8	94	21.0	2690		42.7	29.4	93				7.26
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			89.4	0.34	977	28.5		1590			1340	78.0	99	20.7	2900		44.7	29.5	85				8.91
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			87.1	0.35	901	28.2		1560			1340	76.7	98	21.3	2830		43.6	29.3	91				8.39
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			70.2	0.27	733	22.6		1460			1130	69.3	83	22.0	2720		44.9	26.0	80				7.97
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			64.9	0.26	632	23.9		1400			1170	64.3	89	20.8	2600		44.6	25.7	72				7.44
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			75.2	0.31	859	19.3		1410			1190	65.7	92	21.0	2740		43.1	25.1	85				8.04
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			66.6	0.29	760	18.3		1340			1150	58.7	85	20.6	2580		40.8	24.8	75				7.51
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			63.6	0.27	713	18.6		1220			1160	58.0	85	20.0	2550		42.2	24.1	67				7.11
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			71.5	0.30	721	18.6		1230			1190	60.3	95	22.0	2530		42.7	23.9	75				7.58
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			64.3	0.24	690	15.4		1130			1050	54.7	74	16.9	2750		40.5	22.0	64				5.74
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			55.9	0.21	511	21.2		956			819	49.6	72	13.6	2260		31.6	17.1	63				5.11
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			63.1	0.31	796	19.8		1320			1030	64.3	90	18.7	2920		41.4	24.0	80				7.78
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			62.0	0.35	848	23.2		1430			1130	75.7	88	18.5	3170		46.1	26.6	83				7.28
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			67.4	0.30	725	18.7		1290			1110	56.7	76	16.0	2950		41.1	22.8	68				6.95
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			75.0	0.35	777	23.8		1430			1270	77.2	77	17.6	3320		46.9	26.1	68				7.06
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			66.9	0.30	814	18.3		1370			1140	61.5	89	20.9	3010		43.4	25.8	78				7.71
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
TILL-2 Meas			62.3	0.26	553	24.6		1150			883	43.3	56	15.5	3010		33.4	19.5	48				5.98
TILL-2 Cert			26000	2	540000	4000.0		12200.0			98000	15000	74000	12000	150000		3700.0	1000.0	38400.00				11000
3839055 Orig	17.3	68.7	27.3	0.28	789	0.84	0.2	105	357	3.08	50.7	18.0	96	3.86	2480	9.05	5.34	2.76	64	17.0	12.3	1.13	2.17

Analyte Symbol	Ag	Al	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf
Unit Symbol	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Lower Limit	0.2	0.5	0.5	0.05	1	0.07	0.1	5	5	0.05	0.02	0.1	2	0.01	0.5	0.01	0.01	0.01	1	0.1	0.03	0.05	0.04
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839055 Dup	16.8	81.1	31.6	0.27	894	1.04	0.2	98	354	2.72	53.8	20.8	116	4.80	2460	9.40	5.48	2.82	78	20.5	12.6	1.12	2.20
3839070 Orig	7.6	162	27.6	0.06	1790	2.87	0.7	20	270	1.32	27.7	39.6	156	5.18	944	3.99	2.03	1.46	125	48.7	5.56	3.86	2.39
3839070 Dup	7.5	168	26.6	0.06	1840	3.32	0.6	42	266	1.10	27.0	38.6	159	4.87	937	3.44	1.84	1.38	128	49.3	4.87	3.51	2.30
3839139 Orig	6.8	222	40.4	0.11	1620	4.83	0.8	74	212	1.88	211	86.7	200	6.37	1070	19.5	9.69	7.75	159	64.4	30.0	3.48	4.83
3839139 Dup	6.7	208	37.0	0.10	1580	4.68	0.8	67	204	1.81	209	82.0	188	5.79	1050	19.8	10.0	8.00	152	60.5	30.6	3.47	4.77
3839154 Orig	68.3	287	34.3	0.40	3780	7.46	2.4	74	200	1.74	271	187	448	7.77	8640	26.5	12.5	10.3	267	97.7	39.7	5.57	6.15
3839154 Dup	66.6	236	28.9	0.39	3150	6.39	1.9	73	192	1.43	253	168	442	6.47	7860	24.8	12.0	9.77	216	94.9	38.0	4.45	4.67
3839211 Orig	4.7	226	37.5	< 0.05	2820	2.56	0.5	65	212	1.02	163	97.0	183	4.79	1220	20.0	10.2	9.01	152	65.1	36.9	2.31	3.14
3839211 Dup	5.5	199	35.0	< 0.05	2730	2.61	0.5	55	214	1.17	178	95.9	169	4.55	1210	19.2	10.3	9.25	139	57.4	38.2	2.41	3.07
3839226 Orig	2.9	227	52.5	< 0.05	4030	2.79	0.7	54	250	1.19	122	81.8	206	5.27	1450	10.9	6.31	5.56	166	70.5	20.5	3.26	3.67
3839226 Dup	3.1	227	52.6	< 0.05	4070	3.00	0.8	54	247	0.96	129	81.5	212	5.08	1450	11.2	6.27	5.76	164	67.3	21.8	3.04	3.36
3839253 Orig	6.9	206	19.0	< 0.05	2300	3.98	0.7	36	233	1.75	204	80.7	167	5.29	855	18.5	8.40	7.27	158	85.9	29.4	4.51	3.72
3839253 Dup	6.5	190	21.6	< 0.05	2190	3.45	0.7	50	235	1.51	178	77.5	158	4.86	814	16.0	7.45	6.61	148	78.8	26.3	4.05	3.51
3839296 Orig	10.9	103	18.8	< 0.05	1300	1.38	0.4	27	287	0.90	50.9	30.1	90	1.64	1110	4.94	2.18	2.19	77	34.4	7.45	2.23	1.54
3839296 Dup	7.5	98.3	19.0	< 0.05	1370	1.28	0.4	34	284	0.78	49.2	29.8	87	1.57	1120	4.50	2.08	2.04	73	33.2	7.13	2.60	1.53
3839352 Orig	5.7	150	31.1	< 0.05	2940	2.75	0.6	36	264	1.05	26.9	36.6	139	3.09	873	4.41	2.31	1.53	110	52.6	5.61	3.45	1.94
3839352 Dup	5.3	155	31.3	0.06	3110	2.67	0.5	28	268	1.25	26.1	37.3	146	3.20	832	4.53	2.35	1.70	114	53.1	6.04	3.37	1.88
3839442 Orig	11.8	83.3	13.0	< 0.05	652	1.84	0.3	84	181	1.70	46.0	20.7	70	2.45	794	3.85	1.83	1.55	57	30.3	6.28	1.48	1.91
3839442 Dup	11.4	77.1	12.6	< 0.05	639	1.73	0.3	83	176	1.39	43.4	19.0	63	2.22	753	3.60	1.65	1.43	52	28.1	5.81	1.44	1.82
3839469 Orig	5.5	187	28.5	< 0.05	1220	5.51	0.5	96	233	0.98	154	39.2	155	3.10	481	10.3	4.18	3.29	139	60.5	13.6	1.80	2.70
3839469 Dup	5.6	209	30.0	< 0.05	1490	6.75	0.5	88	235	1.04	165	46.7	163	3.79	515	11.5	4.83	3.70	158	69.0	15.2	2.01	2.92
3839484 Orig	10.3	88.3	23.1	0.21	810	3.06	0.4	75	239	4.04	65.2	21.6	82	2.20	1680	7.96	3.68	2.80	70	29.3	10.1	< 0.05	2.03
3839484 Dup	10.2	106	27.1	0.41	997	3.70	0.5	93	236	3.41	69.2	24.5	103	2.68	1720	8.23	3.75	2.86	85	35.1	10.2	0.53	2.37
3839497 Orig	21.7	203	82.1	1.43	1930	6.06	0.9	77	458	12.3	138	67.6	242	8.97	1910	16.7	7.53	5.25	190	58.1	18.2	0.72	7.24
3839497 Dup	21.6	201	78.4	1.36	1910	5.26	0.9	68	448	11.9	134	65.8	230	8.90	1860	15.7	7.50	5.02	177	56.3	17.4	0.67	7.33
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04
Method Blank	< 0.2	< 0.5	< 0.5	< 0.05	< 1	< 0.07	< 0.1	< 5	< 5	< 0.05	< 0.02	< 0.1	< 2	< 0.01	< 0.5	< 0.01	< 0.01	< 0.01	< 1	< 0.1	< 0.03	< 0.05	< 0.04

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
TILL-2 Meas	1.50					536	33.4	3.69		17700	81	18.6	463	84.8	1070				239			2.0	77.4
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.55					733	34.7	5.31		24200	87	19.8	659	86.8	1100				309			2.2	76.3
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.56					663	29.4	5.02		23600	95	20.2	702	91.5	1190				298			2.5	80.4
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.57					686	29.9	4.89		23600	93	19.3	708	87.6	1170				289			2.6	79.3
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.52					576	25.7	4.54		20600	93	16.0	587	74.6	1040				306			2.5	73.3
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.55					601	31.3	4.72		20200	94	16.5	593	69.8	1040				295			2.8	70.2
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.49					627	31.7	4.47		19700	87	22.0	571	89.7	1100				298			3.2	76.5
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.61					592	27.4	4.27		18700	92	18.3	554	83.0	1050				278			2.7	70.3
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.52					624	34.6	4.41		18100	91	16.4	552	79.4	1070				262			2.8	65.4
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.68					635	41.2	4.34		18200	99	19.3	559	85.6	1070				267			2.7	66.9
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.59					529	23.1	3.97		16200	84	14.2	472	58.8	998				270			2.1	55.4
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.54					410	22.4	3.06		15100	68	14.6	368	48.7	990				228			2.1	40.3
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.56					521	28.7	4.35		18500	88	20.6	528	88.5	1020				363			2.7	71.3
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.67					564	36.9	4.86		20100	96	26.6	578	87.3	1100				406			3.5	82.4
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.52					548	28.7	4.14		18800	97	16.1	542	78.3	991				332			2.6	69.4
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.56					610	35.3	4.75		20900	88	15.6	624	76.5	1120				436			3.6	86.0
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.58					625	25.6	4.48		18900	77	18.4	628	82.5	1120				367			3.1	71.6
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
TILL-2 Meas	1.51					495	29.5	3.36		15000	77	14.6	484	56.2	1070				296			2.1	52.5
TILL-2 Cert	70.0					44000	47000	600.0		780000	14000	20000	36000	32000	31000				143000			800.0	12000
3839055 Orig	0.85	1.95	78	< 0.1	11	44.6	19.2	0.78	32	660	4	2.3	54.3	446	10.1	< 0.5	11.6	< 0.5	67.9	0.02	< 0.05	4.8	24.9

Analyte Symbol	Hg	Ho	I	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Re	Ru	Sb	Sc
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	0.05	0.01	1	0.1	5	0.01	0.2	0.01	2	0.1	2	0.2	0.03	0.2	0.1	0.5	0.01	0.5	0.1	0.01	0.05	0.2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839055 Dup	0.73	1.98	75	< 0.1	12	45.2	23.3	0.73	35	688	4	2.7	54.9	460	9.9	< 0.5	12.0	< 0.5	77.9	0.02	< 0.05	5.1	30.8
3839070 Orig	0.56	0.76	46	0.2	23	20.6	42.5	0.23	32	2500	9	6.9	24.9	137	40.8	< 0.5	5.49	< 0.5	103	< 0.01	< 0.05	1.6	30.4
3839070 Dup	0.58	0.66	45	0.2	22	19.5	41.9	0.22	32	2340	9	6.6	22.2	136	36.9	< 0.5	5.10	< 0.5	99.6	< 0.01	< 0.05	1.6	30.7
3839139 Orig	0.50	3.68	100	0.2	35	93.6	52.8	1.15	37	843	4	9.4	143	170	203	< 0.5	32.7	< 0.5	126	0.01	< 0.05	2.7	62.1
3839139 Dup	0.50	3.80	96	0.2	34	93.3	50.5	1.17	36	806	4	9.3	149	165	210	< 0.5	34.0	< 0.5	118	0.02	< 0.05	2.3	62.0
3839154 Orig	0.87	4.80	54	0.7	24	144	89.1	1.47	75	4880	5	11.6	215	478	214	< 0.5	49.9	< 0.5	196	< 0.01	< 0.05	2.1	97.1
3839154 Dup	0.63	4.66	52	0.6	21	133	89.4	1.50	65	4380	4	9.9	205	408	198	< 0.5	46.8	< 0.5	161	< 0.01	< 0.05	1.6	82.4
3839211 Orig	0.45	3.46	35	0.2	19	89.7	43.6	1.02	40	1280	4	8.0	165	151	144	< 0.5	35.2	< 0.5	81.5	< 0.01	< 0.05	1.5	41.0
3839211 Dup	0.57	3.40	33	0.2	18	99.6	40.1	1.02	39	1290	3	7.5	172	148	137	< 0.5	37.1	< 0.5	75.2	< 0.01	< 0.05	1.5	37.6
3839226 Orig	0.42	1.96	49	0.2	14	61.4	46.5	0.72	37	1200	6	11.6	90.2	135	185	< 0.5	20.1	< 0.5	71.0	< 0.01	< 0.05	2.8	30.2
3839226 Dup	0.53	1.96	46	0.2	14	65.7	47.0	0.68	36	1200	6	11.3	93.6	134	178	< 0.5	21.5	< 0.5	70.5	0.01	< 0.05	2.4	28.7
3839253 Orig	0.36	3.18	41	0.2	21	109	68.5	0.82	26	6650	4	8.1	168	121	104	< 0.5	38.8	< 0.5	97.0	< 0.01	< 0.05	1.0	42.2
3839253 Dup	0.21	2.83	37	0.2	21	96.9	64.0	0.70	26	6440	4	7.8	147	116	91.3	< 0.5	34.3	< 0.5	96.1	< 0.01	< 0.05	1.0	37.5
3839296 Orig	0.48	0.93	42	< 0.1	9	29.7	20.1	0.24	26	1700	7	6.4	41.4	119	35.1	< 0.5	9.10	< 0.5	24.0	< 0.01	< 0.05	1.5	16.5
3839296 Dup	0.53	0.75	46	< 0.1	8	29.5	19.0	0.22	26	1650	7	6.6	37.6	119	31.1	< 0.5	8.39	< 0.5	23.2	< 0.01	< 0.05	1.5	16.9
3839352 Orig	0.56	0.84	41	0.1	12	17.1	39.1	0.27	41	1690	3	6.7	22.9	108	67.8	< 0.5	4.94	< 0.5	48.1	< 0.01	< 0.05	1.3	27.7
3839352 Dup	0.43	0.89	39	0.2	12	17.1	41.4	0.27	42	1750	3	7.0	22.2	109	64.9	< 0.5	5.16	< 0.5	51.3	< 0.01	< 0.05	1.3	27.8
3839442 Orig	0.61	0.72	37	< 0.1	22	27.5	22.1	0.22	20	2140	4	3.8	32.9	63.0	44.4	< 0.5	7.98	< 0.5	34.6	< 0.01	< 0.05	0.8	17.7
3839442 Dup	0.50	0.61	36	< 0.1	21	26.2	20.2	0.22	19	2060	4	3.5	31.1	57.7	34.7	< 0.5	7.45	< 0.5	31.2	< 0.01	< 0.05	0.7	16.8
3839469 Orig	0.45	1.99	49	0.1	20	77.7	51.5	0.53	52	1720	4	5.7	71.7	106	57.5	< 0.5	18.7	< 0.5	57.4	< 0.01	< 0.05	1.2	40.1
3839469 Dup	0.57	2.31	51	0.2	22	85.9	57.4	0.59	56	1980	5	7.4	79.9	126	67.8	< 0.5	20.9	< 0.5	69.0	0.01	< 0.05	1.3	48.9
3839484 Orig	0.76	1.66	50	< 0.1	23	45.9	31.6	0.48	32	3840	6	4.3	60.2	83.0	25.3	< 0.5	14.1	< 0.5	47.1	< 0.01	< 0.05	0.9	24.8
3839484 Dup	0.61	1.67	50	< 0.1	24	50.9	38.8	0.45	33	3790	6	5.0	61.0	91.3	27.5	< 0.5	14.7	< 0.5	57.3	< 0.01	< 0.05	1.0	29.3
3839497 Orig	1.78	3.36	49	0.3	59	87.3	94.7	1.38	69	5390	13	15.5	90.2	249	46.7	< 0.5	22.3	< 0.5	158	0.02	< 0.05	4.9	89.2
3839497 Dup	1.62	3.16	48	0.2	57	90.0	72.8	1.32	66	5230	13	15.1	90.1	240	45.9	< 0.5	23.1	< 0.5	156	0.01	< 0.05	5.0	86.4
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5
Method Blank	< 0.05	< 0.01	< 1	< 0.1	< 5	< 0.01	< 0.2	< 0.01	< 2	< 0.1	< 2	< 0.2	< 0.03	< 0.2	< 0.1	< 0.5	< 0.01	< 0.5	< 0.1	< 0.01	< 0.05	< 0.2	< 0.5

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
TILL-2 Meas		94.9	180	1.57	19.0		87.2			91.1	87	23.1	430	25.5	631	159
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		136	183	1.57	20.3		93.6			103	98	30.0	604	37.2	695	175
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		144	188	2.02	21.0		87.6			101	92	37.9	611	39.7	667	196
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		146	190	1.94	21.0		88.2			100	93	36.0	612	39.2	662	191
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		121	189	1.81	19.3		91.9			95.7	95	24.6	522	31.9	684	197
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		122	182	1.65	19.4		88.6			96.3	98	23.3	510	32.0	699	182
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		117	208	1.65	18.3		98.6			99.1	94	28.6	492	31.6	689	212
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		114	184	1.44	17.3		89.2			93.0	98	27.3	463	29.8	625	190
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		114	177	1.32	17.7		86.6			88.0	86	29.4	481	29.9	596	176
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		115	181	1.52	17.7		93.8			91.3	98	30.4	476	30.6	596	191
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		93.1	175	1.37	18.0		80.8			87.9	80	25.8	395	24.8	629	173
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		73.7	156	1.36	14.3		84.2			88.5	83	22.4	312	19.5	595	157
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		112	178	1.51	18.1		94.6			90.1	98	30.9	491	30.6	673	203
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		120	199	1.88	19.9		97.2			99.5	94	33.6	538	34.4	782	200
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		110	181	1.28	17.3		87.3			90.6	80	31.9	477	30.2	619	176
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		127	239	1.35	19.9		91.7			101	82	39.3	547	35.0	807	173
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		120	216	1.42	18.2		92.9			101	93	32.0	509	32.2	707	213
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
TILL-2 Meas		91.5	174	1.10	14.4		84.4			93.3	89	25.7	405	24.4	504	152
TILL-2 Cert		7400.0	144000	1900.0	1200.0		18400.0			5700.0	77000	5000	40000	3700.0	130000	390000
3839055 Orig	8	11.5	452	0.17	1.81	< 1	6.67	0.4	0.69	9.28	142	1.75	59.3	4.19	103	63.4

Analyte Symbol	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Lower Limit	1	0.03	0.1	0.01	0.01	1	0.02	0.2	0.01	0.01	1	0.01	0.02	0.02	2	0.5
Method Code	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS	MIG-MS
3839055 Dup	6	11.4	452	0.20	1.83	< 1	7.59	0.5	0.72	9.19	160	1.70	61.8	4.37	119	73.9
3839070 Orig	3	5.39	701	0.46	0.72	< 1	9.40	0.6	0.27	3.32	208	2.15	22.0	1.66	319	91.2
3839070 Dup	2	4.85	691	0.45	0.69	< 1	9.51	0.6	0.22	3.28	199	2.29	18.8	1.38	310	79.6
3839139 Orig	< 1	28.0	518	0.54	3.85	1	25.6	0.8	1.21	7.01	262	2.07	121	7.20	279	154
3839139 Dup	< 1	29.2	507	0.51	3.88	< 1	25.3	0.7	1.35	7.02	251	1.93	126	7.49	248	149
3839154 Orig	< 1	40.0	540	0.72	5.05	< 1	18.9	0.8	1.64	9.23	336	2.34	153	9.52	627	202
3839154 Dup	< 1	37.7	485	0.61	4.68	< 1	16.8	0.7	1.58	8.42	337	1.99	145	9.30	588	169
3839211 Orig	< 1	30.8	661	0.53	4.43	< 1	18.8	0.5	1.07	5.29	255	1.39	111	5.86	204	131
3839211 Dup	< 1	31.2	656	0.52	4.60	< 1	18.3	0.4	1.04	5.39	233	1.67	110	5.90	194	128
3839226 Orig	1	17.5	1200	0.90	2.44	< 1	14.0	0.7	0.69	5.13	325	1.84	60.1	3.92	311	146
3839226 Dup	1	17.4	1220	0.88	2.50	< 1	13.6	0.7	0.70	5.27	319	1.86	63.1	3.84	316	150
3839253 Orig	< 1	29.6	660	0.50	3.53	< 1	12.3	0.5	0.99	5.91	192	1.82	93.8	5.42	279	121
3839253 Dup	< 1	25.1	656	0.52	3.10	< 1	11.1	0.5	0.87	5.45	187	1.69	86.8	4.92	263	113
3839296 Orig	2	7.53	824	0.42	0.95	< 1	4.27	0.3	0.23	3.27	168	1.86	28.2	1.60	121	66.1
3839296 Dup	3	6.93	827	0.42	0.79	< 1	4.33	0.3	0.27	3.03	162	2.02	25.7	1.44	113	60.6
3839352 Orig	2	4.73	872	0.43	0.82	< 1	6.86	0.4	0.28	3.35	226	1.40	27.3	1.80	199	63.5
3839352 Dup	< 1	5.06	900	0.43	0.86	< 1	6.84	0.4	0.29	3.51	237	1.46	27.7	1.78	207	64.1
3839442 Orig	3	5.55	363	0.25	0.75	< 1	7.50	0.3	0.24	5.18	121	1.33	20.1	1.36	177	63.4
3839442 Dup	2	5.26	343	0.22	0.69	< 1	6.77	0.3	0.22	5.09	110	1.26	18.6	1.37	155	58.2
3839469 Orig	2	14.0	638	0.32	1.96	< 1	14.1	0.5	0.63	6.34	200	1.90	62.8	3.45	241	86.8
3839469 Dup	1	15.3	665	0.41	2.23	< 1	14.8	0.6	0.70	7.18	251	2.02	71.9	3.78	296	89.6
3839484 Orig	4	12.0	504	0.22	1.50	< 1	10.6	0.4	0.52	5.19	136	3.27	52.5	3.32	165	79.8
3839484 Dup	4	12.3	520	0.25	1.55	< 1	12.3	0.5	0.58	5.32	158	3.66	50.4	3.40	177	91.5
3839497 Orig	3	19.3	798	1.06	2.62	< 1	35.8	1.4	1.32	8.03	106	3.22	97.9	8.42	405	250
3839497 Dup	4	18.9	798	1.07	2.73	< 1	34.8	1.3	1.25	9.02	125	3.20	97.6	7.88	398	250
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5
Method Blank	< 1	< 0.03	< 0.1	< 0.01	< 0.01	< 1	< 0.02	< 0.2	< 0.01	< 0.01	< 1	< 0.01	< 0.02	< 0.02	< 2	< 0.5